CONSTRUCTION NEWS

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RAILWAYS.

(✚ Denotes a contract awarded.)

✚PENNSYLVANIA.—Buffalo, Rochester & Pittsburgh Ry.—Press advices state that the MILLER CONSTRUCTION CO., Lock Haven, Pa., has a contract for work on two miles of line revision and double-tracking between Hutchins, Pa., and Midmont.

GEORGIA.—Blakely Southern Ry. Co.—We are officially advised that the funds have been secured for the reconstruction of the line from Blakely to Jokin, about 22 miles. The work will be done under the direction of Pres. W. C. Snodgrass, Thomasville, Ga. Noted March 16.

FLORIDA.—Atlantic, Okeechobee & Gulf Ry. Co. The charter of this company has been formally adopted. The officers are as follows: Henry Clay Ferriot, Pres., New Orleans; Robert H. Riley, First Vice-Pres., New Orleans; Walter Graham, Second Vice-Pres.; A. H. West, Third Vice-Pres., Jacksonville; Daniel A. Simmons, Secy., Jacksonville; W. H. Milton, Treas., Marianna; Francis Belding McGarry, General Counsel. The route is through the undeveloped parts of the state, a part of which, it is believed, will be made available for agriculture by an extensive system of drainage now under way. The main line will begin from a point near the city of Tampa, extending easterly through the counties of Hillsborough, Polk, De Soto, Lee, Palm Beach and Dade to a point near Miami, and a branch, beginning at Melbourne, in Brevard County, extending southwesterly through the counties of Brevard, St. Lucie, Osceola, De Soto and Lee to a point near Ft. Myers; a branch line beginning at Bassinger in Osceola County, and extending northerly to St. Cloud. Noted Feb. 16.

LOUISIANA.—St. Louis & San Francisco Ry.—The construction of an extension from Memphis to New Orleans is contemplated. This road enters New Orleans from Baton Rouge over the tracks of the Louisiana Ry. & Navigation Co., and it will only be necessary to build an extension from Memphis to Baton Rouge. The extension from Memphis to Baton Rouge will be about 315 miles, and the distance from Baton Rogue to New Orleans is 80 miles. As there will be no heavy construction work except in bridging, the work will not be expensive. The distance from St. Louis to New Orleans will be about 700 miles; from Chicago 900 miles and from Kansas City 880 miles. The distance from St. Louis to Brownsville, at the Mexican boundary, will be about 1,189 miles and from Chicago 1,480 miles. F. C. Jonah, St. Louis, Mo., is Ch. Engr. of Construction.

✚TENNESSEE.—Nashville, Chattanooga & St. Louis Ry.—The contract for grading a new line from Lookout Mountain to Wauhatchie has been awarded to DUNAVANT & CO., Knoxville, Tenn.

✚MICHIGAN.—Pere Marquette R. R.—The contract for the construction of the double track on this road, between Detroit, Mich., and Toledo, Ohio, some 40 miles, has been awarded to W. E. TENCH & CO., 3090 West Grand Boulevard, Detroit. A large force of men and teams will be put on this work at once, between Romulus, Mich., and Alexis, Ohio. This firm has just completed 30 miles of railroad for the Michigan United Rys., between Lansing and Owosso, Mich., and will transfer their outfits to this work at once. Headquarters for this work have been established at Monroe, Mich. J. F. Deimling, Detroit, is Ch. Engr.

IOWA.—Chicago & Northwestern Ry.—Press advices state that this company will spend about $1,000,000 during the coming year at Missouri Valley, Boone, and in double tracking the line between Otis and Beverly. E. C. Carter, Chicago, Ill., is Ch. Engr.

NEBRASKA.—Union Pacific R. R.—Press dispatches state that R. S. Lovett, Pres. of the Harriman lines, has ordered that the double-tracking of the main line in Nebraska be completed this coming summer—the work to be immediately done from Julesburg, Colo., to Pine Bluff, Wyo., about 100 miles.

MONTANA. — Great Northern Ry. — Last summer the company filed a plat covering its right of way from Mondak, across the Missouri from Mondak south to connect with the Northern Pacific near Ridgelawn and thence the Northern Pacific tracks are used to Newton. A plat recently filed takes up the line at Circle, passing through the town of Jordan and thence southwest to the old "79" ranch, which marks the terminus of the present filing. The total distance being about 150 miles. A. H. Hogeland, Chicago, Ill., is Ch. Engr.

✚MISSOURI.—Kansas City Southern Ry.—A contract for grade revision between Kansas City and Neosho, Mo., has been awarded to PORTER BROS., Seattle, Wash.

✚Oklahoma & Golden City Ry., a new company, contemplates the construction of a 400-mile line from Jefferson City, Mo., to Fairview, Okla. The contract for first section has been awarded to WILLIAM LOVE, Indianapolis, Ind.

NEW MEXICO.—The Farmington, Albuquerque & Gulf R. R. Co. has recently been organized. We are officially advised that the route is from Albuquerque to Farmington, about 190 miles. The financiering is practically assured. The officers are: Pres., H. B. Fergusson, Albuquerque; Secy., A. M. Edwards, Farmington; Treas., J. B. Herndon, Albuquerque; Ch. Engr., Frank P. Hall, Farmington.

OREGON.—Oregon-Washington R. R. & Navigation Co.—A contract has been awarded to the TWOHY BROS. CONSTRUCTION CO., Pendleton, Ore., to build the Echo-Coyote cut-off in Oregon.

ONTARIO. — Canadian Pacific Ry. has awarded the following contract to JONED & GIROUARD, Ottawa, for double-tracking its line in Ontario from Smiths Falls to Bathurst.

✚SASKATCHAWAN.—Grand Trunk Pacific.—The following sub-contracts for work on the line southwest from Biggar, Sask., have been awarded: JAMES FITZGERALD, 1 mile; BIGGS & CLEMENT, 12 miles; JAMES A. FOY, 3 miles.

ALBERTA, CAN.—Alberta Central Ry.—The contract for the grading and ballasting of 100 miles of line, 64 miles west from Red Deer and running 36 miles east, has been awarded to JANSE McDONALD & CO., Winnipeg, Man., at a cost of $2,500,000.

✚ALBERTA.—Canadian Northern Ry.—The company has awarded the following contracts: 200 miles on main line west ward from Edmonton; 200 miles from Alsack to Calgary on the Marysville extension; 90 miles from Moosejaw to Redville, Sask., on the Marysville extension; 35 miles on the Jack Fish extension from North Battleford, Sask., toward the Peace River Country, and 80 miles from Shellbrooke to Battleford, Sask., all to the COWAN CONSTRUCTION CO., Winnipeg; also 100 miles from Red Deer to Calgary, Alta., and 200 miles of the main line eastward from Vancouver, B. C., both to the NORTHERN CONSTRUCTION CO.

ELECTRIC RAILWAYS.

BOSTON, MASS.—See item under Streets and Roads.

TERRYVILLE, CONN.—The Bristol & Plainville Tramway Co. have petitioned the State Legislature for a charter to extend its lines through Agney Ave. and South Main St., a distance of over a mile. G. E. Cockings, Bristol, Conn., is Gen. Mgr.

PEQUEA, PA.—The engineers surveying for the three mile extension of the Lancaster and Southern St. Ry. Co., from Pequea by way of York Furnace Springs to Mt. Nebo have completed their work. Most of the right of way has been secured. The building of this stretch of road will eliminate the Martic Forge hill and the road will have no heavy grades. The company is placing in position a new generator at their plant at Colemanville and will install an auxiliary engine to insure an adequate amount of power to meet all conditions.

TARENTUM, PA.—Surveyors are locating the route of a trolley line for the Tarentum, Brackenridge & Butler St. Ry Co., between Tarentum and Birdville, about four miles. The line will probably enter Tarentum on Seventh Ave., and follow the Freeport Road.

TOWSON, MD.—The Towson & Cockeysville Electric R. R. Co. will build a line seven miles long from Towson to Cockeysville, Md., by way of Lutherville, Timonium and Texas, Md. One bridge will be required over the Northern Central R. R. north of Texas; one tunnel under Seminary Ave. at Lutherville will also be built. Permission to cross country roads is now being asked. The officers are: J. Alexis Shriver, Pres., Belair, Md.; Wm H. Wight, Vice-Pres., Cockeysville, Md.; James S. Naussear, Secy. and Treas., Lutherville, Md.; Charles E. Rieman, Baltimore, Md.; David G. McIntosh, Towson, Md., are directors and James H. Harlow is Ch. Engr.

NORFOLK, VA.—A company has been organized to construct a railway traffic tunnel under the Elizabeth River from Pinners Point to Norfolk. Estimated cost $4,000,000. Alvah H. Martin is Pres.; Walter H. Taylor is Vice-Pres., and J. Edward Cole, is Secy.

RICHMOND, IND.—Citizens of Richmond, Liberty, Brookville and Harrison, Ohio, will organize a company known as the Eastern Indiana Traction Co., with a view of building an interurban line from Richmond to Cincinnati by way of Liberty, Brookville and Harrison, Ohio. A. M. Gardner and Paul Comstock of Richmond are the Attys.

SCOTTSBURG, IND.—Officials of the Madison & Western Traction Co. announce that bids for the construction of 41 miles of road will be asked for soon.

VINCENNES, IND.—George B. Hazleton, President of the recently incorporated Southeastern Interurban Ry. Co., announces that bids will be asked for the construction of a traction road from Vincennes to Jasper as soon as surveys are completed.

PEORIA, ILL.—Articles of incorporation have been issued by the Secy. of State of Illinois to the Milwaukee, Peoria & St. Louis R. R. Co., which is part of a corporation formed, it is said, to construct an electric railway from Milwaukee to St. Louis by way of Rockford and Peoria. The incorporators are: Eugene C. Morton, Frank H. Reed, Frederick V. Vehmeyer, John H. O'Neil and Frank H. Gardiner, all of Chicago. This new line will probably be built from Peoria through Tazewell, Woodford, Marshall, Putnam, Bureau, Lee, Ogle and Winnebago counties to the city of Rockford.

DES MOINES, IOWA.—The entire system of the Ft. Dodge, Des Moines & Southern R. R. Co. will undergo a complete rehabilitation at a cost of about $270,000. A freight terminal will be built at Des Moines. Additional side tracks, yard tracks and industry tracks at Ft. Dodge will be laid at a cost of $18,000. An interlocking plant where the Ft. Dodge line crosses the Illinois Central tracks will be constructed at a cost of $7,000. Exchange tracks with the Minneapolis & St. Louis Ry. Co., near Ft. Dodge, will be constructed at a cost of $5,200. Also the construction of passing tracks at the following stations: Roberts, Lungren, Alleman, Hartcourt, Ft Dodge Junction, Huxley, Ogden Mine tracks, at a cost of $18,080. A four-mile extension to the No. 2 mine of the Ogden Coal Co. will be built at a cost of $40,000. J. A. Blake, Boone, Iowa, is Gen. Mgr. and Pur. Agt.

FOREST CITY, IOWA.—We are officially advised that surveys have been made and a part of the right of way secured for a railway between Forest City and Mason City about 30 miles. This will be constructed by the Forest City, Fertile & Mason City Ry. Co. A. L. Sherrin, Watertown, S. Dak., is Pres., F. R. Lyford, Northwood, Iowa, is Ch. Engr. Noted Jan. 26.

✚IOWA CITY, IOWA.—The Iowa City-Ottumwa Interurban Ry. has awarded a contract for an electric line, 70 miles in length, between Iowa City and Ottumwa, to the ARNOLD CONSTRUCTION CO. Estimated cost $2,196,000. Half of the line will be constructed during the current year and the road will be in operation as far as Keota or Sigourney by winter. The excavation will begin about June 1. Robert Campbell of London sails for England to complete underwriting an issue of $3,000,000 of bonds. Stock to the amount of $250,000 has been sold between Iowa City and Ottumwa and farmers and others have donated 90 per cent. of the required right-of-way.

KANSAS CITY, MO.—The Kansas City, Clay County & St. Joseph Ry. Co., incorporated, is capitalized at $720,000. The company was organized to build 72 miles of road connecting Kansas City with St. Joseph and extending a branch to Excelsior Springs. Either steam or electric motive power may be used. The incorporators are: George Townsend, George D. Beardsley, William A. Medill and Grant Peabody of Kansas City, and Ward S. Arnold all of Chicago.

DALLAS, TEX.—Announcement is made by Edward T. Moore, Mgr. of the Dallas Street Ry., that Stone & Webster, Boston will build an interurban line from Dallas to Waxahachie about 30 miles that is intended to be in operation by the fall. Cost about $1,000,000. The firm of Stone & Webster announces that it will build an interurban electric railway, entirely independent of the local Dallas lines, from Waxahachie to a connection with the lines of the Northern Texas Traction Co., at Oak Cliff. They will operate their cars over the lines of the latter company.

FORT WORTH, TEX.—The Northern Texas Traction Co., at Fort Worth is securing right of way for its proposed interurban electric railway projected from Fort Worth to Cleburne. This company has merged the Dallas-Sherman interurban railway with its Fort Worth-Dallas line. Stone & Webster, Boston, Mass., are interested.

CENTRALIA, WASH.—The Council has passed an ordinance granting the Twin City Light & Traction Co. a franchise to extend its tracks on Tower Ave. to Third St., and thence to the western city limits.

SEATTLE, WASH.—The City Council has passed an ordinance granting the Seattle Electric Co. a franchise to construct and operate a street railway on certain parts of Main St. E. C. Gaumnitz, Seventh and Olive Sts., Seattle, Wash., is Pur. Agt.

OAKLAND, CAL.—The City Council voted a franchise for 35 years to the Southern Pacific R. R. Co., for the operation of its Seventh St. line, from Bay to Fallon St. The company will pave the streets covered by the franchise at a cost of $200,000, and maintain the street lights. The entire interurban sysem in Alameda county will be electrified. Cost about $11,000,000.

SAN FRANCISCO, CAL.—The United Railroads of San Francisco will extend its Mission and Ocean electric line. Charles N. Black, 85 Second St., San Francisco, is Mgr.

SAN FRANCISCO, CAL.—See item under Miscellaneous Contracts. Trolley Poles, San Francisco, Cal.

TURLOCK, CAL.—S. N. Griffith has applied for a franchise to build an electric railway in this city.

BRANDON, MAN.—After receiving several offers for a street railway franchise the City Engineer is preparing estimates for a municipal system. See issue Feb. 9.

REGINA, SASK.—Bids will be received until noon, April 5, by the City Comrs., for the construction of the initial seven miles of the municipal street railway system. L. A. Thornton is City Engr.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

CHESTERFIELD, MASS.—E. E. Davis, Engr., Northampton, Mass., is purchasing property along the Westfield River, to build a dam and power plant.

✚PITTSFIELD, MASS.—Press reports state that the contract for duct work at the power plant at the Stanley works has been awarded by the General Electric Co. to RIVERS & YOUNG, of Holyoke, at about $25,000.

✚NEW HAVEN, CONN.—The contract to install a central lighting plant at Yale University has been awarded to the WESTINGHOUSE, CHURCH, KERR CO., 10 Bridge St., New York, N. Y.

BALMVILLE (Newburgh P. O.), N. Y.—The Newburgh Light, Heat & Power Co. will erect a power station at Balmville. Frank E. Estabrook submitted plans for this work.

GLOVERSVILLE, N. Y.—The Fulton County Gas & Electric Co., this city, submitted the following bid: For a 5 year contract: (a) 132 series enclosed alternating current arc lights, consuming 400 watts, $50 each a year; (b) 132 series metallic flame arc lights (magnetite lamps), consuming 275 watts, $63 each a year; (3) 164 40 watt Tungsten or other latest improved incandescent lights, $16 each a year; (d) 30 75 watt Tungsten or other latest improved incandescent lights, $21 each a year. For a 10 year contract: (a) 132 series enclosed alternating current carbon arc lights, consuming 400 watts, $57 each a year; (b) 132 series metallic flame arc lights (magnetite lamps), consuming 275 watts, $61 each per year; (c) 164 40 watt Tungsten, or other latest improved incandescent lights, $15 each a year; (d) 30 75 watt Tungsten, or other latest improved incandescent lights, $20 each a year. Noted March 16.

MOUNT VERNON, N. Y.—The Board of Education will receive bids until April 3 for furnishing and installing gas and electric light fixtures in the Trades School. F. M. Tichenor is Pres., and Edwin Q. Bienvenu is Clk.

NEW YORK, N. Y.—Bids will be received by R. Waldo, Fire Comr., 157 East 67th St., until 10.30 a. m., April 3, for the installation of new fuse board, jack test board and cable rack in the Fire Alarm Telegraph Bureau, 157 and 159 East 67th St.

PEQUEA, PA.—See item under Electric Railways.

NEW YORK, N. Y.—Bids were received March 6 by the Bd. of Education as follows: (a) Item 4, installing steam boilers, etc., in additions to Erasmus Hall High School on the easterly side of Flatbush Ave., about 205 ft. north of Grand St., Borough of Brooklyn; (b) installing heating and ventilating apparatus: (a) Railler Heating Co., $12,860; (a) E. Rutzler Co., $13,189; (a) Black & Williams, $12,400; (a) D. J. Rice, $14,613; (b) W. J. Olvaney, $47,773; Jas. Curran Mfg. Co., $43,671; E. Rutzler Co., $43,561; Raizler Htg. Co., $47,000; Blake & Williams, $45,915; Frank Dobson Co., Inc., $43,114; D. J. Rice, $52,612.

HOBOKEN, N. J.—Bids will be received until April 3 for gas and electric fixtures for the High School at Fourth and Bloomfield Sts. William A. Kerr is Secy. of the Bd. of Education.

ORELAND, PA.—The Philadelphia Suburban & Electric Co., has purchased eleven acres at Oreland for the purpose of erecting a gas and electric light plant.

WILMINGTON, DEL.—The Bd. of Water Comrs. have applied for authority to generate electricity for lighting the streets and municipal buildings. Bonds for $150,000 will probably be issued.

BROOKLYN, MD. — A 5-year contract has been executed by the Commissioners with the Consolidated Gas & Electric Light Co., of Baltimore, to furnish electric current for lighting Brooklyn, Curtis Bay and other local districts. The contract calls for the following per year: Arc lamps, $77; 40-candlepower incandescent, $26.75; 60-candlepower incandescents, $30.75; 80-candlepower incandescents, $34.50; and 200-candlepower incandescents, $67.25.

✚WHEELING, W. VA.—Preliminary arrangements are being made by the Consumers' Electrical Co., to build a power plant at 42d St. and Water St., to cost about $700,000. The DRAVO-DOYLE CONSTRUCTING CO., Pittsburg, has the contract for the wells, intakes and foundations. This part of the work, it is thought, will be finished by August.

RALEIGH, N. C.—A charter has been granted to the Yadkin River Power Co. for the purpose of taking over the Blewit Falls power plant, in Richmond County. The company will complete the plant and set on foot electric transmission and power enterprises, operate interurban lines and other public utilities that mean much development throughout Eastern and Central Carolina. Col. Charles E. Johnson, of Raleigh, now President of the Carolina Power & Light Co., will be the new President.

SALISBURY, N. C.—A charter amendment has been granted the Virginia Power Co., of Salisbury, increasing its capital stock to $1,000,000. The principal stockholders are J. J. Matt, N. M. McCanless, J. D. Norwood.

✚AUGUSTA, GA.—The Augusta Ry. & Electric Co., and the Augusta-Aiken Ry. Co., of Augusta, Ga., have arranged for the following extensions and improvements to their power houses and systems. Estimated cost, approximately $500,000. The power

house extension is planned for two 2,500-KW. steam turbines, one of which, with the necessary boilers and auxiliaries, will be installed this year. A 7½-mile transmission line will be built from the power house in Augusta to the power house of the Augusta-Aiken Ry. Co., near Clearwater, S. C., and a 500-KW. motor generator set will be installed at this point, and a 300-KW. set in the present substation near Aiken. Under an arrangement with the city, the wires in Augusta will be placed underground on three of the principal streets, involving the laying of about three miles of conduits. In connection with this underground work, the company will also install ornamental poles on Broad St., Augusta, for carrying its trolley wires and feeders and also clusters of tungsten lamps for street lighting. An extension of about one mile of single track will be made and the reconstruction of a large amount of the present tracks is planned. Contract for the above work has been awarded to J. G. WHITE & CO., Engineers and Contractors, 43 Exchange Place, New York.

✚FORT SCREVEN, GA.—The following awards have been made for electrical work and installation at Fort Screven, Ga.: Sperry Engineering Co., New York City, light fixtures and wiring in various buildings, $7,430; switchboard, $2,699; F. E. Newbury Electric Co., St. Louis, Mo., construction of primary-secondary service and street lines, $7,340; transformers and meters, $1,262; two engines, etc., $2,370; steam piping and pump heater, $4,110; Ridgway Dynamo & Engine Co., Ridgway, Pa., two 35-KW., 60-cycle engine-type alternators, complete, with exciters, $1,-980. E. Keeler Co., Williamsport, Pa., one boiler and smoke stack, $3,131. Noted Jan. 19.

✚ALBERTVILLE, ALA.—It is reported that the contract for the new electric light plant has been awarded to the J. B. McCRARY CO., Atlanta, Ga., by the City Council. Noted on March 9.

MONTGOMERY, ALA.—An electricity generating plant and wiring system will be built by Richard Tillis. Work will be started as soon as the plans are approved. The generating capacity will be about 450 KW.

NEWTON, MISS.—Bids will be received by G. M. Beaver, Mayor, and the Bd. of Aldermen, until 4 p. m., April 4, for material and machinery for the erection of the electric light plant. Plans and specifications may be seen at the offices of the Mayor or Xavier A. Kramer, Engr., Magnolia. Miss. Noted March 2.

JACKSON, TENN.—Bids will be received until April 4 by the Mayor and Bd. of Aldermen for two generators of 150-arc light capacity each, one 250-HP. engine, switchboard and 155 arc lamps. T. H. Hartmus is Secy. Water Works.

CINCINNATI, OHIO.—John J. Wenner, Clk., Bd. of Pub. Service, will receive bids until April 3 for lighting by electricity the streets and public places, excepting property under the control of the Bd. Park Comrs., for a period of 10 years, beginning June 1, 1912.

CLEVELAND, OHIO.—The contract for the installation of electrical fixtures in the new court-house has been awarded to the CALDWELL CO., New York, at $119,900 including outside lights. Noted March 23.

WEST UNION, OHIO.—Bids will be received until 1 p. m., April 4, by the Comrs. of Adams County, Ohio, for furnishing and erecting lighting fixtures for new court-house building at West Union, Ohio. In submitting proposals bidders will give unit bids on each fixture both combination and electric only, also an aggregated bid upon all fixtures under both heads, viz., combination gas and electric only. C. S. Daulton is Audr.

WOODSDALE, OHIO.—The Miami Power Co., lately incorporated, will build a hydro-electric power plant at Woodsdale to develop about 5,000 HP. Approximate cost, $500,-000. H. L. Hanley and J. W. Durfue, Chicago; W. D. James, Detroit; William Bergen and John Relf, both of Overpeck, Ohio, are the backers.

BRAZIL, IND.—The City Council will ask bids for the installation of a modern electric light plant.

GARRETT, IND.—A plan is being considered by the City Council to enlarge the municipal electric light plant.

MARION, IND.—The incorporators of the Upland Electric Co. are H. L. Finley, George N. Tidd and F. B. Ball.

SHOALS, IND.—The Southern Indiana Power Co., which is a consolidation of the Bedford Power Co. and the Shoals Power Co., is preparing to erect a power plant and dam here.

MILFORD, MICH.—Water power has been purchased on the Huron River by the Milford Electric Light Works and a plant will be established here. F. S. Hubbell is the owner.

✚CHICAGO, ILL.—The contract for furnishing and installing electric cables and making a connection with the substation in Garfield Park has been awarded to the SAFETY INSULATED WIRE & CABLE CO. by the West Chicago Park Comrs.

WAUKEGAN, ILL.—Press reports state that the North Shore Electric Co. is considering a plan to install new machinery capable of developing about 1,200 HP. The plant will have to be enlarged to accommodate this machinery. F. J. Baker, 205 La Salle St., Chicago, is Mgr.

EAU CLAIRE, WIS.—V. D. Simonds, Grand Rapids, Wis., is making preliminary arrangements for the construction of a large paper, pulp and box board manufacturing plant and the development of the Brunet Falls water power on Chippewa River, near Eau Claire, for the Cornell Land & Power Co., of Eau Claire. The Brunet Falls Mfg. Co. will be incorporated to own and operate the new plant. The investment will total approximately $1,500,000 and the power plant will be constructed for a maximum of 20,000 HP. at high water stage. David Douglas, Eau Claire, is Pres.

GRAFTON, WIS.—See item under Manufacturing Plants.

WAUSAU, WIS.—A power plant is contemplated by the City Council. A water-works pumping station for generating current will be erected in connection with the power station. H. E. Marquardt is Controller.

✚ATLANTA, IOWA.—T. E. Nichols, City Clk., has awarded the contract to JAMES BURLANGER & CO., Omaha, Neb., at $43,-000, for complete power-house and equipment.

FRASER, IOWA.—The Ft. Dodge, Des Moines & Southern R. R. Co. will construct a power plant here, to cost $48,500. The entire system will be equipped with automatic safety signals.

✚NEWTON, IOWA.—The contract has been awarded to the AMERICAN CONSTRUCTION CO. by the Tenney Process Carburetted Water Gas Co. to build gas works here.

✚WEBSTER CITY, IOWA.—The contract for the construction of the electric light and power plant, bids for which were closed March 21, has been awarded to C. E. ATKINSON at $9,897. The other bidders were: W. J. Zittwall, $9,935; Stephenson & Peterson, $11,796, and Cook Construction Co., $11,548. Noted March 23.

EVELETH, MINN.—Bids will be received until April 4 by D. P. McIntyre, City Clk., for furnishing and installing on Grant Ave. about 46 ornamental street light standards, a cluster of five lights on each. The wiring is also included.

MINNEAPOLIS, MINN.—Bids will be received by Henry N. Knott, City Clk., until March 31 for installation of an alternating-current generator to replace the direct-current generator now in use at the city crematory.

✚LEAVENWORTH, KAN.—The E. E. NEWBERY ELECTRIC CO., of St. Louis, Mo., has been awarded the contract for installing an electric light and power plant at the U. S. Penitentiary Hospital, Leavenworth, Kan., at $4,470. Noted March 16.

✚STARBUCK, MINN.—The Starbuck Milling Co. has awarded to the STEEL & MACHINERY CO., Minneapolis, the contract for power-house equipments, it is reported.

SEDAN, KAN.—The Sedan Ice, Light & Power Co. will receive bids about May 1 for the building of an electric light plant to cost about $20,000. N. B. Wall, Caney, Kan., is the Arch. C. D. Ingerfield is the owner.

BASIN, WYO.—See item under Water Supply—Irrigation.

CHEYENNE, WYO.—Press reports state that the Cheyenne Light, Fuel & Power Co. intends to install one 1,000-KW. direct-connected, 60-cycle, 2,300-volt, 3-phase generator and one 600-HP. Franklin water-tube boiler. O. C. Bangsberg is Supt.

COLUMBIA, MO.—The Water and Light Comrs. have been authorized by John S. Bicknell, City Clk., to advertise for bids for a new power-house and equipments to cost about $69,600.

BRENHAM, TEX.—The City Council has under consideration an application for the installation of a gas plant and distributing system. The proposed franchise is for 50 years. The cost of plant will be about $40,-800.

LULING, TEX.—The Luling Electric Light & Power Co. has been granted a franchise by the City Council to install, maintain and operate an electric light and power plant for a term of 20 years.

EL RENO, OKLA.—Plans have been completed, it is reported, for new power plant and water-works improvements. Bids will be asked some time in April. Estimated cost, $65,000.

GUNNISON, COLO.—See item under Water Supply—Irrigation.

LAS CRUCES, N. MEX.—The City Council has granted a franchise to the Las Cruces Electric Light & Ice Co. to install an electric light and power plant here.

OGDEN, UTAH.—The Davis & Webster Counties Canal Co. will erect a hydro-electric plant of concrete and steel. The ultimate cost will be about $500,000 for a 15,000-HP. installation. At present only 6,000-HP. will be constructed. Plans and specifications are being prepared by H. A. Strauss, Stock Exchange Bldg., Chicago, Ill., Consult. Engr.

We are officially advised that the Merchants Light & Power Co. will expend $200,-000 for the city lighting system. H. A. Strauss, Stock Exchange Bldg., Chicago, Ill., is Consult. Engr. Noted March 2.

CARSON CITY, NEV.—See item under Water Supply—Irrigation.

✚PHOENIX, ARIZ.—The contract for two turbines and accessories has been awarded to S. MORGAN SMITH CO., at $16,590, and the contract for lump sum generators, transformers and switchboard apparatus to GENERAL ELECTRIC CO., Schenectady, at $30,-000. Noted March 23.

✚NORDHOFF, CAL.—The contract has been awarded by the Supervisors of Los Angeles to the HARD OIL & ASPHALT CO. for the laying of a pipe line or an 8-in. conduit from Nordhoff to Santa Paula.

SAN DIEGO, CAL.—The Escondido Utilities Co. will install a new system of lighting and all lamps will be on same circuit. About 44 additional lights will be installed.

MONTREAL, QUE.—The Montreal Light, Heat & Power Co. has awarded a contract to G. M. GEST, Power Bldg., Montreal, for underground conduit work for electric wiring. Contract price, $100,000.

HAMILTON, ONT.—The Bd. of Control has recommended that the Council engage E. I. Sifton, of London, the electrical engineer who planned out that city's distribution system, to report for Hamilton on the cost of a municipal lighting, power and street lighting plant.

STRATHCONA, ALTA.—The City Council has awarded the following contracts for electrical machinery to be installed in the municipal power-house by October. GOLDIE & McCULLOCH CO., Galt, engine, $12,900; boilers, $12,700; CHAPMAN, WALKER CO., Toronto, 600-KW. generator, $10,160; GORMAN, CLANCEY & GRINDLEY, Edmonton, Burnham regulator, $750; CANADA FOUNDRY CO., Toronto, smoke stacks, fans, $7,-304, and feed pumps, $1,167. Noted Feb. 9.

BRIDGES.

(✚ Denotes a contract awarded.)

BUFFALO, N. Y.—The Board of Aldermen have voted in favor of appropriating $26,000 to build a new bridge across the Barge Canal at the foot of Ferry St. The government had arranged to build a bridge at a cost of $77,-000, 25 ft. wide with 8 ft. walks, but the city wants a bridge 30 ft. wide with 8-ft. walks. Francis G. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Bids will be received by Charles B. Stover, Pres. Park Board, Arsenal Bldg., Fifth Ave. and 64th St., New York, until 3 p. m., April 6, for furnishing all the labor and materials required for constructing a reinforced concrete bridge from Hunter Island to Twin Island, in Pelham Bay Park, in the City of New York. Blank forms may be obtained at the office of the Department of Parks, Zbrowski Mansion, Claremont Park, Borough The Bronx.

✚PETERSBURGH, N. Y.—We are officially advised that the contract for constructing a reinforced concrete arch bridge, of 85-ft. span, over the Hoosick River, has been awarded to the COLE-MORTLAND CO., Bennington, Vt., at $2,700.

JERSEY CITY, N. J.—Bids will be received by the Boulevard Commissioners of Hudson County, J. C. Sweeney, Clk., until 3.30 p. m., April 5, for removing, replacing and reinforcing the railing and brackets on the Hudson Boulevard Bridge over the Pennsylvania R. R. in Jersey City, and for doing any additional work deemed necessary to place the entire structure in good condition.

CHAMBERSBURG, PA.—Bids will be received by the Commissioners of Franklin County, E. K. Raff, Clk., until 11 a. m., April 14, for the erection of a reinforced concrete bridge over Muddy Run, at Rankins Mill, in Antrim Township.

*EASTON, PA.—Bids will be received by the Commissioners of Northampton County, Court House, Easton, until 1 p. m., April 18, for the construction of a reinforced concrete bridge and other work incidental thereto, at Easton. The bridge will consist of two 92-ft. and one 100-ft. spans, with an approximate width of 65 ft. Specifications and general drawings are on file at the office of the County Commissioners. Young & Reese, Pomfrept Bldg., Easton, are County Engrs.

PHILADELPHIA, PA.—The plans for widening Chestnut St. bridge, are being revised by the Bureau of Surveys, under the supervision of George S. Webster, Ch. Bureau of Surveys, and bids for the work will soon be asked.

Plans are also in preparation for the erection of a structural steel bridge on the line of Springfield Ave., over the tracks of the West Chester division of the Pennsylvania R. R. The cost will be about $40,000.

PITTSBURG, PA.—We are officially advised that bids will be received by Joseph G. Armstrong, Dir., Pub. Wks., until 10 a. m., April 7, for constructing a reinforced concrete arch bridge on the line of Larimer Ave., over Washington Boulevard, to replace the present wooden viaduct. Printed pamphlets of contract and specifications and blue prints of contract plans can be obtained at the office of the Department of Public Works, Henry W. Oliver Bldg., Pittsburgh, Pa. The estimated cost of the structure is $175,000.

✚FREDERICKSBURG, VA.—We are officially advised that contracts for bridge construction have been awarded as follows: for constructing a steel bridge, 35 ft. long, with 12-ft. roadway, substructure to be of concrete over Court House Road, Massaponax Run, to ROANOKE BRIDGE CO., Roanoke, Va., for constructing a steel bridge 35 ft. long, 12-ft. roadway, substructure to be of concrete, over Telegraph Road, Massaponax Run to E. C. WOODWARD, Richmond, Va. Noted on March 9.

✚RICHMOND, VA.—We are officially advised that the contract for constructing a 50-ft. reinforced concrete arch bridge on Hazel Run, in Spottsylvania County, was awarded, on March 24, by the State Highway Commission, P. St. J. Wilson, Comr., to the VIRGINIA EQUIPMENT & SUPPLY CO. Noted on March 23.

RICHMOND, VA.—Bids will be received by P St. J. Wilson, State Highway Comr., until noon, April 6, for constructing a steel bridge 503 ft. long, with concrete substructure, over the Shenandoah River in Page County, 3½ miles from Stanley. Blue prints of plans can be secured from the Childrey, Sunday Co., Richmond.

MACON, GA.—We are officially advised that bids will be received until March 30, for constructing the substructure of a steel bridge over Ocmulgee River at Macon. D. B. Dunn is Chief Engr.

BIRMINGHAM, ALA.—The Board of Revenue is considering the construction of 21 bridges, eight of steel and 13 of concrete, in Jefferson County. The cost is estimated at $30,000.

HARTSELLS, ALA.—Bids will be received by the Commissioners' Court of Morgan County, until April 1, for constructing a number of steel bridges.

✚LOUISVILLE, KY.—The contracts for the steel viaducts to be built for the Big Four and Chesapeake & Ohio R. R. in the eastern part of the city have been awarded, GRAINGER & CO., LOUISVILLE, securing the contract for the steel superstructure. The supports will be built of reinforced concrete, the contract for [illegible] to B. C. MILNER & SO[illegible] was awarded [illegible] work is about $600,000.

BROOKVILLE, OHIO[illegible] are officially advised that all bids re[illegible] on March 24 for constructing a stee[illegible] over Wolf Creek, have been rejecte[illegible] The work will be readvertised. Noted [illegible] rch 9.

COLUMBUS, OHIO.—T[illegible] rd of Commissioners of Franklin [illegible] has taken preliminary steps for [illegible] bonds for $80,000, for the reconstr[illegible] of the Olentangy River bridge at [illegible], and the Wilson bridge north of [illegible] ton.

✚COSHOCTON, OHIO.—[illegible] ts for constructing the Spurgeon [illegible] in Tiverton Township, have been aw[illegible] as follows: superstructure, CENTRA[illegible] CRETE & CONSTRUCTION CO., $4[illegible] bstructure, WALTER RABJOHN, at [illegible]

MARION, OHIO.—Edward [illegible], County Surveyor, is preparing pla[illegible] and specifications for the abutments o[illegible] bridges to be built by the county over [illegible] ttle Scioto river.

NEWARK, OHIO.—Bids [illegible] received by the Commissioners of [illegible] County; until April 12, for the nece[illegible] labor and material for constructing [illegible] structure of the Cortier bridge over [illegible] uth fork of Licking river in Lima [illegible] hip; the superstructure for the sam[illegible] e; reinforced concrete arch over [illegible] fork in Licking Township; reinforced [illegible] rete arch over Quarry run in Licking [illegible] hip; reconstructing the substructure [illegible] e Alfred Wells bridge in Union Tow[illegible]; reconstructing the substructure an[illegible] ting the superstructure over a branch [illegible] ake fork in Washington Township; co[illegible] ting the substructure for the McFadden [illegible] e over a branch of Clear fork in McKea[illegible] wnship.

✚GREENFIELD, IND.—The [illegible] ommissioners of Hancock County, have aw[illegible] d a contract for the construction of [illegible] bridges to the GREENFIELD BRIDGE [illegible] SEWER CO.

HUNTINGTON, IND.—Bids [illegible] be received by J. W. Weaver, County [illegible] r., until April 4, for constructing ten co[illegible] crete culverts, with 8 to 12-ft. spans, an[illegible] one 38-ft. concrete bridge. The estimated [illegible] t is $7,-500.

MARTINSVILLE, IND.—The Commissioners of Morgan County contempla[illegible] building a modern iron bridge over White River at Waverly to replace the wooden bridge recently burned.

MUNCIE, IND.—The Commissioners of Delaware County are asking for bids for the construction of four bridges.

VINCENNES, IND.—Bids will be received by the Commissioners of Knox County until 10 a. m., April 8, for constructing three bridges at an aggregate cost of $5,000, according to plans prepared by Jacob S. Spiker, Design. Engr. John T. Scott is County Audr.

VINCENNES, IND.—We are officially advised that all bids received on March 9 for constructing three bridges in Knox County, have been rejected. New bids will be asked some time in April. John T. Scott is County Audr. Noted on Feb. 23.

*BATAVIA, ILL.—Bids will be received by W. H. Reaney, City Clk., until 2:30 p. m., April 20, for constructing a temporary bridge across Fox River, removing the present structure, and building a new reinforced concrete bridge, 270 ft. long and 60 ft. wide.

*EAST ST. LOUIS, ILL.—Bids will be received by H. D. Sexton, Pres. Bd Trustees, East Side Levee and Sanitary District, until April 25, for constructing three single-track, deck-plate girder bridges with five 55-ft. spans, one single-track, deck-plate girder bridge, with five 58-ft. spans, and one double-track, deck-plate girder bridge, with five 64-ft. spans.

✚TREMONT, ILL.—We are officially advised that the contract for constructing two reinforced concrete bridges in Elm Grove Townships, was awarded on March 21 to the PORTER-McCULLA CONTRACTING CO., Mackinaw, Ill.

✚CEDAR RAPIDS, IOWA.—We are officially advised that the contract for constructing a 6-span concrete bridge over Cedar River at Third Ave., has been awarded to B. J. SWEATT, Boone, Iowa, the lowest bidder, at $155,989. Noted on March 23.

✚DUNDAS, MINN.—The contract for constructing the new bridge across the river at Dundas has been awarded to A. Y. BAYNE & CO., at $5,900.

CAMDEN, ARK.—Bids will be received by the Commissioners of Puachita County, until 1 p. m., April 18, for constructing a steel bridge across the Ouachita River near Camden, according to plans and specifications on file with M. D. Hale, County Judge.

EL PASO, TEX.—The construction of a viaduct over the railroads at Fort Bliss on the county road will commence in two or three weeks, and the structure will be completed in about three or four months. It will be a combination of grade and steel trestle, and is estimated at $66,000.

LAS VEGAS, N. MEX.—Bids will be received by Lorenzo Deladgo, Probate Clk. of San Miguel County, until April 17, for constructing bridges over Rio Pecos, Rio Gallinas and Arroyo Pecos Rivers.

MOSCOW, IDAHO.—Bids will be received by the Board of Commissioners o[illegible] Latah County, until noon, April 15, for the construction of a bridge across Paradise Creek. Road District No. 10, according to plans. Homer E. Estes, Clk. of Bd.

PROSSER, WASH.—Bids will be received by the Board of Commissioners of Benton County, until 2 p. m., April 4, for wrecking what is known as the Old Brid[illegible] near Prosser, and erecting a steel bri[illegible] and abutments to replace the same, acco[illegible] g to plans and specifications filed in th[illegible] office of the County Engineer of Benton Co[illegible] y, in the court house at Prosser.

RAINIER, ORE.—Bids will be received by the County ... Columbia County, until noon, April 5, ... the construction of a steel bridge a... ...ice Creek, at Rainier, according to pl... and specifications on file in the office of ... County Clerk.

PASADENA, CAL.—We are officially advised th... cost of constructing a bridge over Ar... Seco, at Pasadena, has been estimate... $200,000. The sum of $100,000 has be... appropriated for this purpose by the Co... Board of Supervisors, and the city of Pasadena will soon call an election to vote ... bonding the city for the remaining $1... S. J. Van Ornum is City Engr.

✚SO... PASADENA, CAL.—We are officially ...d that the contract for construct... bridge, 48 ft. wide and 1,450 ft. long, w... six 86-ft. reinforced concrete arch spans, ... the Arroyo Seco, at South Pasade... has been awarded to T. J. SHEA, at $14...

SAN DIEGO, CAL.—The following bids have ... received by the City Council for buildi... the Spruce St. suspension bridge. Charl... Heffgen, $7,730; Knight & Hyde Const... Co., $4,456; Standard Iron Works ... 120.

BRANTFORD, ONT.—Bids will be received ... James A. Smith, Township Clk., until ... April 3, for constructing two concr... arch and two reinforced-concrete girder ...dges, for the municipality of the Town... of Brantford.

LONDON, ONT.—Bids will be received by the C... Engineer, until April 1, for construct... several small bridges, the cost aggrega... $8,000.

OWEN SOUND, ONT.—Bids will be received by J. K. Leslie, Chn. Bd. of Wks., until ... p. m., April 7, for constructing two bridg... as follows: Ninth St. bridge, reinforced concrete arch bridge, steel superstructure, span 53 ft., width 40 ft., Tenth St. bridge, reinforced-concrete arch bridge, steel superstructure, span 66 ft., width 66 ft. Plans are on file with R. McDorwall, Town Engr.

WINNIPEG, MAN.—The Canadian Northern R. R. Co., will soon receive bids for constructing a bridge on the main line west of Edmonton, Alta., to cost $250,000

BUILDINGS.

(✚Denotes that this work is advertised in Engineering News.)

✚BATH, ME.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Bath, Me., to AMBROSE B. STANNARD, St. James Bldg., New York, at $50,310.

PORTSMOUTH, N. H.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., will receive bids until April 10 for improvements to the U. S. post-office and customs house.

BOSTON, MASS.—A branch library building is proposed on North Bennet St., to cost $85,000. J. H. Benton is Chn. Library Trustees.

✚HOLYOKE, MASS.—The general contract for a 4-story brick block, 62 x 167 ft., for Mrs. J. J. O'Connor at Miller Ave. and Hamden Sts., has been awarded to JOSEPH LA LABERTE. D. J. LANDERS has the subcontract for the mason work. George P. B. Alderman & Bro., Holyoke, Mass., are the Archs.

PITTSFIELD, MASS.—Plans for the 4-story office building, which the Stanley Electric Co. will erect at Woodland Ave. and Kellogg St., are now ready for the contractors' estimates. The building will cost about $40,000.

✚WORCESTER, MASS.—Contracts for the addition to the College of the Assumptionist Fathers at Greendale have been awarded as follows: Steel work, to the EASTERN BRIDGE & STRUCTURAL CO.; mason work, to URGEL DORAIS, both of Worcester. The building will be 62 x 140 ft., four stories high, of brick and steel with slate roof. O. E. Nault, Worcester, Mass., is the Arch.

HARTFORD, CONN.—F. C. Walz has completed plans and estimates are now being received for the new store and tenement block to be erected at New Britain Ave. and Julius St., for A. R. Carrano. The building will be of brick, 90 x 110 ft., and four stories high.

Plans are being prepared by R. A. D'Arino, New Haven, for a 5-story brick tenement building to be erected on Park St. for Jerry De Vito. The building will be 47 x 107 ft. with pressed brick front and artificial stone trim.

NEW HAVEN, CONN.—Philip Sellers is preparing plans for a brick warehouse at Hamden for the Frank S. Platt Co. The structure will be two stories high and basement, 60 x 100 ft., with an ell 40 x 100 ft.

BUFFALO, N. Y.—J. Reidpath & Son, 30 Builders Exchange, are preparing plans for a 6-story and basement warehouse, brick and structural iron, concrete floors, to be erected on West Utica St., by J. L. Donovan, 178 West Utica St.

BUFFALO, N. Y.—A. A. Post, 435 Brisbane Bldg., is completing revised plans, which will be ready for bids April 15, for a 3-story and basement parochial school building to be erected on The Terrace by the Church of St. Anthony of Padua, structural iron and brick with stone trimmings. Estimated cost, $55,000.

✚HUNTINGTON (L. I.), N. Y.—DANIEL H. BEARY, of Rye, N. Y., has been awarded the contract for a $130,000 mansion here for J. Herbert Johnson. THOMAS & ELLIS have the contract for the mason work. A. F. Willauer is Arch.

JAMESTOWN, N. Y.—The Jamestown Aerie of the Fraternal Order of Eagles will build a large club-house at Shermans Bay on Lake Chautauqua, for which a site has just been purchased.

NEW YORK, N. Y.—The Herbert Dongan Construction Co., 170th St. and Fort Washington Ave., will erect a 5-story brick and terra cotta tenement building at 175th St. and St. Nicholas Ave. The estimated cost is $50,000.

The Salow Construction Co., 1781 Clay Ave., will erect at 180th St. and Pinehurst Ave. two 5-story brick and limestone tenement buildings. The estimated cost is $111,000. C. B. Meyers, 1 Union Sq., is Arch.

Bids will be received until noon, April 5, by the commissioner of Street Cleaning, Room 1403, 13-21 Park Row, New York, for a stable on Canal Ave. and East Third St. (Coney Island), including excavation and grading, piles, concrete foundations, waterproofing, reinforced concrete floors and columns, metal lathing and furring, mason work, carpenter work, iron work, painting and varnishing, hardware, light fixtures, electric wiring, steam heating, roofing.

A 5-story brick tenement building, 44 x 100 ft., will be erected at 167th St. and Hall Pl. The estimated cost is $50,000. The Sinnott Co., 967 East 165th St., is owner. Harry T. Howell, Third Ave. and 149th St., is Arch.

A 12-story brick and brownstone fireproof loft, 50 x 197½ ft., will be erected at 11 East 30th St. Pilcher & Jachan, 109 Lexington Ave., are Archs. The estimated cost is $280,000.

Ellen G. Gilbert, 35 Nassau St., will construct a 3-story brick and terra cotta store and motion picture theater at 140-144 Delancey St. The estimated cost is $40,000. George A. Boehm, 7 West 42d St., is Arch.

George Fred Pelham, 507 Fifth Ave., has prepared plans for the erection of a 7-story store and loft building. The estimated cost is $60,000.

A 10-story fireproof brick and limestone loft building will be erected at 62-64 Mangin St. for Louis Marx, Tompkins and Delancey Sts. The estimated cost is $100,000. Hunter & Murgatroyd, 191 Ninth Ave., are Archs.

An 8-story limestone hotel, 28 x 119 ft., will be erected at Washington Sq., West, for Frederick D. Frick, 108 West Twelfth St. Henry A. Koelble, 71 Nassau St., is Arch.

The Liberty Warehouse Co., 47-51 West 64th St., will erect an 8-story mezzanine fireproof warehouse at 48-50 West 65th St., at an estimated cost of $100,000. Leonard Schoelderfer, Mt. Kisco, N. Y., is Arch.

PORT CHESTER, N. Y.—The proposition to erect a municipal building that will accommodate all the village offices under one roof will be submitted to voters of the village at the election in April.

✚The New York & Stamford Ry. Co. has awarded to the CHARLES W. MURDOCK CO., New Haven, Conn., the contract for erecting in Midland Ave. a 2-story storeroom, car barn to accommodate 75 cars, large machine shop, large paint shop and an addition to its office building. Cost, about $200,000.

ROCHESTER, N. Y.—Bids will be received until April 3 by the Board of Education for erecting a school at 20 Oakman St. J. Frost Warner, 1036 Granite Bldg., is Arch.

ROCHESTER, N. Y.—Gordon & Madden, Sibley Bldg., are completing plans for church edifice, 80 x 90 ft., one story and basement, of stone and structural steel, to be erected at Oxford St. and Monroe Ave. by the Church of the Blessed Sacrament. Estimated cost, $90,000.

Foote & Headley, Cutler Bldg., have completed plans for a 4-story and basement apartment building, 36 x 100 ft., brick and structural iron, to be erected on Chestnut St. by W. Slayton Wilson. Estimated cost, $50,000.

✚SYRACUSE, N. Y.—DAWSON BROS., Union Bldg., have been awarded general contract for construction of the church edifice, one story and basement, to be erected at Colvin St. and Midland Ave. by the Church of St. Anthony De Padua. Rev. Francis Quinn, Pastor. Cost, $100,000.

WHITE PLAINS, N. Y.—Thomas Healy, of Scarsdale, has just announced his intention of spending from $100,000 to $150,000 to erect houses on his property in the Dusenberry Hill section here. Plans for 20 buildings have been completed.

The Lawyers' Westchester Mortgage and Title Co. will erect an office building at Railroad Ave. and Grand St. Estimated cost of land and building, $100,000. Clarence S. McClellan, Mount Vernon, N. Y., is Pres.

PATERSON, N. J.—Bids will be received by the Board of Education until April 5 for a school at Second and Halpine Sts. William T. Fanning, 308 Colt Bldg. is Arch.

NORRISTOWN, PA.—Bids will be received until April 10 for the construction of a detention house on Marshall St. J. C. Jacobs is County Compt.

✚PHILADELPHIA, PA.—WILLIAM R. DOUGHERTY has been awarded the contract to construct a 2-story parochial school, 64 x 102 ft., for the Church of the Holy Family. The cost will be $100,000.

✚THOMAS REILLY has been awarded the contract for a 5-story rectory, 60 x 159 ft., to be built at the southeast corner of 18th and Thompson Sts. for the Church of the Gesu. The cost will be $138,315.

✚DOVER, DEL.—The Pennsylvania R. R. is to build a new passenger station at Dover, the contract for the same having been awarded to IRWIN & LEIGHTON, Philadelphia. The train platforms will be 500 ft. long and 20 ft. wide. They will be paved with vitrified brick and curbed with stone. The shelters will be 100 ft. long on each side of the tracks. Connecting the platforms, there will be a concrete passenger subway under the tracks.

BALTIMORE, MD.—The Board of Awards, J. Barry Mahool, Pres., opened bids for erection of No. 70 school at William St. and Warren Ave.; E. J. Phipps, 227 Corcoran Bldg., Washington, D. C., is lowest bidder on general contract at $106,000; size of building, 80 x 160 ft. Plans by Glidden & Fritz, Glenn Bldg., Baltimore.

✚The Board of Awards let contract to CHARLES BEAVEN CLARK & CO., Huntington Ave. and 31st Sts., Baltimore, at $83,246.30 for storm-water drains.

✚BALTIMORE, MD.—The contract has been awarded to GLADFELTER & CHAMBERS for the construction of a residence for Henry Williams. The estimated cost is $40,000.

The Board of Estimate has approved plans and specifications for the improvements to the Mount Royal Pumping Station, subject to the approval of City Solicitor Poe. As soon as he passes on the specifications, advertisements for bids will be issued. The plans call for the expenditure of about $180,000.

LYNCHBURG, VA.—The Southern Ry. Co., D. W. Lum, Ch. Engr., Washington, D. C., will erect passenger station here of fireproof construction, to cost $50,000.

RICHMOND, VA.—Frank W. Carter will erect 2-story brick dwelling and 1-story brick stable to cost $55,000.

✚The Richmond & Henrico Railway Co., 2-4-6 Ebel Bldg., awarded the contract to P. J. WHITE & SONS, Richmond, to erect car-barn at Fulton.

The Life Insurance Co. of Virginia will erect proposed 5-story office building of fireproof construction.

CLARKSBURG, W. VA.—According to press reports, bids will be received until April 5 for constructing a theater here. Holmboe & Lafferty, Empire Bank, are Archs.

ATLANTA, GA.—Plans have been prepared by Haralson Bleckly for the construction of a 6-story fireproof hotel to be erected at Houston and Pryor Sts. The cost is $75,000.

WASHINGTON, GA.—Bids will be received by J. W. Calloway, Comr. of Rds. and Revenues, until March 30, for constructing a jail, complete. T. Lloyd Preacher, 403 Dyer Bldg., Augusta, is Arch.

✚WAYCROSS, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Waycross, Ga., to AMBROSE B. STANNARD, St. James Bldg., New York, at $65,450.

TALLADEGA, ALA.—J. E. Camp will receive bids until April 10 for additions and improvements to the County Court House. Charles W. Carlton, Anniston, is Arch.

AGRICULTURAL COLLEGE, MISS.—J. C. Hardy, Pres. Mississippi Agricultural and Mechanical College, will receive bids until March 31 for constructing a fireproof chemical building.

✚AKRON, OHIO.—GEORGE BAKER LONG, Chattanooga, Tenn., has been awarded the general contract, at $247,000, for the construction of the Portage Hotel. Subcontracts will be let from the Akron office. The Akron Hotel Co. are owners. Essenweir & Johnson, Buffalo, N. Y., are the Archs.

NILES, OHIO.—The Board of Education will receive bids until April 5 for constructing the Bentley Ave. school; also improvements to the Warren Ave. school. A. E. Hackett is Clk.

✚GENEVA, OHIO.—JOHN STANCLIFT, Geneva, has been awarded the contract to construct the proposed hotel and restaurant at Geneva. The hotel will be 40 x 64 ft. and two stories high. There will also be additions, making room for fifty guests.

WASHINGTON C. H., OHIO.—Bids will be received until March 31 by the Board of Education for constructing a school. J. M. Willis is Clk.

BLOOMINGTON, IND.—Plans and specifications for the construction of a passenger and freight station at this point by the Monon R. R. have been approved and bids will be invited soon by the Chicago office. The estimated cost of the new structure, which is to be built of stone with tile roof, is $100,000.

HUNTINGTON, IND.—The directors of the Huntington Club Association will soon ask for bids for the construction of a country club-house and landscape improvements.

LOOGOOTEE, IND.—Bids will be received by the Building Committee of the Knights of Columbus, Loogootee, Ind., until April 12 for the erection and completion of the proposed Knights of Columbus building, to be erected at Loogootee, Ind. Plans and specifications are on file with the Building Committee and at the office of J. W. Gaddis, Arch., Vincennes, Ind.

MT. VERNON, IND.—Stephens & Herman have ordered plans on which to ask for bids for the erection of a large 2-story elevator building on the site of the elevator building recently destroyed by fire.

OTIS, IND.—The School Trustees have ordered plans for the construction of a new brick school house in Otis. Bids will be received soon.

VINCENNES, IND.—Haek & Simon have ordered plans for the erection of a hotel building on Fairground Ave. The building is to be brick and stone, four stories high with business rooms on ground floor.

WABASH, IND.—The School Board, Charles Baer, Pres., has ordered plans for the erection of a large annex to the local high school building. As soon as completed bids will be received.

WINCHESTER, IND.—M. L. Mills has ordered plans and specifications on which he will ask for bids for the erection of a large business block on Franklin St. The structure will be of brick and stone.

✚DETROIT, MICH.—C. R. LOUCKS, 37 West Alexander Ave., has secured an option on a 99-year lease on the property at Park Pl. and Clifford St., and is raising the necessary funds for the erection of a large hotel. The building will contain a convention hall.

✚C. Howard Crane, 1920 Ford Bldg., has awarded the general contract to W. W. HOFFMAN CO., Pittsburg, Pa., for the construction of the theater, 126 x 85 ft., to be located on Monroe Ave. for the Columbia Theater Co. A. Caille, Pres., 34 Farmer St., Detroit, Mich. The estimated cost is $100,000.

The F. and A. Masons, of Detroit, have secured an option on a 30-acre site near Palmer Park in the northern part of the city and are planning on building a $250,000 temple on same.

The Dom Polski Association, Peter J. Leszczyinski, Russell and Canfield Aves., Secy., are contemplating building a large club-house in the eastern part of the city. The association is at present raising the necessary funds.

Ralph Phelps, Secy. of the Library Commission of the city of Detroit, 17 Butler Bldg., will advertise for bids for the new 1½-story library, 70 x 110 ft., to be located on Warren Ave. West., about April 15. B. C. Wetzel & Co., 404 Hammond Bldg., are Archs. Cost about $45,000.

✚R. H. Marr, 1529 Ford Bldg., has awarded the carpentry contract for the new 8-story and basement store building, 100 x 100 ft., for the Kiefer Land Co., 87 Forrest Ave., East, to SCHMIED-SISMAN CO., 391 Beaufait Ave. Cost of building, $160,000.

Williams Bros., 604 Whitney Bldg., are preparing plans for a 6-story and basement apartment house, to be located at Park Pl. and Clifford St., for W. B. Morgan, 210 Cass Ave. The building will have a frontage of 155 ft., will be constructed of press and stock brick, Bedford stone, composition roof, marble, ceramic tiling, hardwood finish and floors. Cost, $100,000.

Stratton & Baldwin, 1107 Union Trust Bldg., have completed plans for the 1½-story library building, 68 x 102 ft., for Detroit, Ralph Phelps, Secy. Library Commission, 17 Butler Bldg. Plans have been sent to Andrew Carnegie for approval. Bids will be taken soon. Cost, $40,000.

DECATUR, MICH.—Bids will be received until noon, April 14, for constructing a brick school. Plans were prepared by Edwyn A. Bowd, Lansing, Mich.

GRAND RAPIDS, MICH.—E. Brielmaier & Sons, 41 University Bldg., Milwaukee, Wis., are preparing plans for a new $40,000 orphan asylum for the St. John's Orphan Asylum, Grand Rapids, Mich.

✚HIGHLAND PARK, MICH.—Wells D. Butterfield, 614 Stevens Bldg., Detroit, Mich., has awarded the masonry and carpentry for the new 2-story and basement school building, 60 x 136 ft., for the Village of Highland Park, Mich. Masonry let to the INTER-STATE ELECTRIC & CONSTRUCTION CO., care of Architect. Carpentry let to HARCUS & CO., 116 Michigan Ave. Cost, $54,000. (Noted March 16.)

JACKSON, MICH.—L. H. Field, Jr., 8 Field Bldg., Jackson, Mich., is revising plans and will receive new bids soon for the new 5-story and basement building, 60 x 90 ft., for the Y. M. C. A., care of F. D. Bennett, 34 Sun Bldg., Jackson, Mich. The estimated cost is $50,000.

PONTIAC, MICH.—Bids will be received until April 4 by E. W. Webster, Secy. Bd. of Educ., for the construction of two school buildings to cost about $80,000. Fisher Bros., Pontiac, prepared the plans.

CHICAGO, ILL.—E. J. Lehman Estate, 75 Monroe St., Chicago, Ill., will erect a hotel here to be twelve stories high, of fireproof construction and cost $2,000,000. E. R. Krause, 75 Monroe St., Chicago, is Arch.

MOLINE, ILL.—Press reports state that bids will be received by the Y. M. C. A. Building Committee until April 5 for constructing a Y. M. C. A. building here. The estimated cost is $125,000. Shattuck & Hussey, Chicago, Ill., are Archs.

✚FOND DU LAC, WIS.—The contract for erecting a new edifice for St. Patrick's Roman Catholic congregation has been awarded to JAMES COYNE, Fond du Lac. J. E. Hennen is Arch.

MADISON, WIS.—Claude & Starck, Madison, Wis., are preparing plans for a combination store, office and lodge building for the Dickinson Lodge, B. P. O. E., at Dickinson, N. Dak., to cost approximately $60,000. The building will be three stories high, of reinforced concrete, with ground dimensions of 50 x 141 ft.

MILWAUKEE, WIS.—H. C. Koch & Son, Wells Bldg., will award contracts soon for the construction of a $350,000 addition to The Boston Store, Grand Ave., Fourth and Sycamore Sts.

✚RACINE, WIS.—The Board of Education has awarded the contract on the new Gilbert Knapp school: General contract to JENSEN BROS., Racine, at $41,026.

RICHLAND CENTER, WIS.—Bids will be received at the office of the City Clerk of Richland Center, Wis., until May 3, for the construction of a city hall. Plans and specifications now on file in the office of Reuben Sutton, City Clk.

WASHINGTON, IOWA.—Bids will be received until April 18 by the County Auditor for the construction of a hospital. Burrows & McLane, Davenport, are Archs.

WAYLAND, IOWA.—Bids will be received by the Board of Education until April 17 for constructing a 2-story and basement concrete school building. Leroy Heaps, Burlington, is Arch.

✚INDEPENDENCE, KAN.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. post-office at Independence, Kans., to W. D. LOVELL, Minneapolis, Minn., at $54,600.

OMAHA, NEB.—The Board of Education will receive bids until April 1 for erecting the north and west wings of the Omaha high school, also alterations to present wings. John Latenser, 632 Bee Bldg., is Arch.

HIGHMORE, S. DAK.—Bids will be received until April 7 by James Buchan, County Audr., for constructing a courthouse. The Black Hills Co., Deadwood, is preparing the plans.

HAVRE, MONT.—Bids will be received by M. B. Riffo, Havre, until April 3 for a 3-story concrete hospital.

TERRELL, TEX.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., April 25, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Terrell, Tex. Drawings and specification may be obtained from the Custodian of site at Terrell, Tex., or at the discretion of the Superv. Arch.

LAWTON, OKLA.—Bids will be received by the Secretary of the Interior, Washington, until April 17, for constructing a 10-room school, also sidewalks around building.

COLORADO SPRINGS, COLO.—Edward Barton, Philadelphia, has been selected as architect for the construction of the Myron Stratton home as provided by the will of the late W. S. Stratton. About $1,000,000 of his estate is to be spent on grounds and buildings and the remainder, amounting to about $7,000,000, to go towards its maintenance.

DENVER, COLO.—A 16-story office building, costing over $1,000,000, will be erected by the Bishop-Cass Investment Co., at 16th and Curtis Sts.

YERINGTON, NEV.—Plans and specifications will be received until April 12 for the construction of a county court-house. Charles A. McLeod, Dayton, Nev., is Clk.

BREMERTON, WASH.—Lieut.-Col. C. L. McCawley, Asst. Q. M., U. S. A., Washington, D. C., will receive bids until May 1 for constructing Marine Barracks at Bremerton.

MEDFORD, ORE.—Bids will be received by the Board of Directors of School Dist. 22 until April 25 for the completion of a public school building here.

✚CLAREMONT, CAL.—The Board of School Trustees have awarded the general contract to F. S. WILLIS, of Ontario, for the construction of a high school building here. The estimated cost is $75,623.

✚LOS ANGELES, CAL.—The County Board of Supervisors of Los Angeles County opened bids for the construction of a detention home to be erected near East Lake Park. Plans by Hudson & Munsell, Stimson Bldg. The bids were as follows: W. C. CROWELL, Pasadena, $55,904 (awarded contract); F. O. Engstrom Co., Fifth and Seaton Sts., $57,146; Alto Planing Mill Co., $57,961; Charles G. Ross, $59,586; John B. Dawson, $60,830; Willard Slater Co., $63,200; Los Angeles Planing Mill Co., $64,868; Weymouth Crowell, $69,870.

SAN FRANCISCO, CAL.—The Southern Pacific R. R. Co. plans the early construction of several railway stations, to be erected as follows: North Berkeley, Northbrae, Albany and West Berkeley. A union station is contemplated for the Southern Pacific & Key Route at Hopkins St., Berkeley. About $100,000 will be expended in the erection of the various depots, and nearly as much will be expended by the Key Route Co. in station improvements.

Righetti & Headman, Phelan Bldg., are preparing plans for a 5-story brick apartment house to be erected on Bush St. for Podesta & Baldocchi. The cost will be $40,000.

C. O. Clausen, Chelan Bldg., is preparing plans for a 5-story brick apartment house for Joseph Henry, to be erected on Ellis St. Estimated cost, $40,000.

The Apartment Investment Co. has been granted a permit for the construction of a 6-story reinforced-concrete apartment house on Van Ness Ave., the cost of which will be $280,000. E. L. Malsbary, 125 Sutter St., will be Building Supt. It will be day work.

✚H. C. Capwell Co., Twelfth and Washington Sts., Oakland, has awarded contract to P. J. WALKER, Monadnock Bldg., for the construction of a 4-story brick store building on Clay St., Oakland, at $400,000. C. W. Dickey, Savings Bank Bldg., Oakland, is the Arch.

✚The contract has been awarded to ELMER CARLSON for the construction of the Lowell high school building at $148,500.

GODERICH, ONT.—Plans for the construction of a town hall and fire hall will be received until April 5. L. L. Knox is Town Clk.

SIMCOE, ONT.—Bids will be received until March 31 by H. B. Donly, Chn. Bldg. Com., Public Library Board, for the construction of the public library in Simcoe.

TORONTO, ONT.—Darling & Pearson, 2 Leader Lane, will receive bids for erecting a clubhouse until April 1 for the Toronto Hunt Club.

✚BRANDON, MAN.—The BRANDON CONSTRUCTION CO. has been awarded the contract for the school here at $42,256.

✚ST. BONIFACE, MAN.—S. SENECAL, St. Boniface, Man., has been awarded the contract for the erection of a convent school here for the Roman Mission at $161,000.

WINNIPEG, MAN.—Plans are being prepared for an additional three stories to the Empress Hotel here. Address Hayter Reid, Supt. of Canadian Pacific R. R. Hotels, Winnipeg, Man.

Nichols & Mason, Winnipeg, Man., have been awarded first prize for plans for the Fort William, Ontario, Y. M. C. A. to cost $75,000.

CALGARY, ALTA.—Plans are being prepared for a market building to cost $50,000. It will be 189 × 74 ft. and 20 ft. high. Address Mayor Mitchell. Bids for construction will be shortly called.

EDMONTON, ALTA.—Robert Tegler is having plans prepared for the construction of two apartment blocks each to cost $100,000.

WATER SUPPLY—IRRIGATION.

(✚ Denotes a contract awarded.)

WILTON, N. H.—The citizens voted on March 15 to install water meters. George G. Telford is Chn. Water Com.

BOSTON, MASS.—The following bids were received on March 27 by Louis K. Rourke, Comr. Pub. Wks., for relaying water pipe: Michael de Sesto Co., 43 cts. per lin. ft.; A. Cefalo, 44 cts.; C. J. Jacobs Co., 54 cts.; Chas. M. Callahan, 56 cts.; J. A. Costello & Co., 59 cts.; J. C. Coleman & Son, 60 cts.; Murphy & Dolan, 62 cts.; John McCourt, 65 cts.; Thomas Burke, 67 cts.; D. E. Lynch, 80 cts.; Michael Russo, 80 cts.; W. J. Rafferty & Co., 82 cts.

Bids will be received until April 5 by J. Edward Mullen, Supt. of Supplies, for furnishing 7,500 ⅝-in., 350 1-in. and 150 ½-in. meters.

TURNERS FALLS, MASS.—The Turners Falls Co. is considering repairing the Turner Falls dam. Arthur J. Safford, of Lowell, Mass., is interested.

UXBRIDGE, MASS.—Bids will be received about April 15 for laying water mains. Estimated cost, $8,000. W. E. Rawson is Supt. W.-Wks.

HYDE PARK, MASS.—The town, it is reported, has decided to enter the Metropolitan water system toward which it has been paying annually. Several miles of mains will probably have to be laid. Dexter Brackett is Chief Engr., Metropolitan Water Bd. James D. Grant is Chn. Bd. Selectmen.

•FULTON, N. Y.—Bids will be received by the Board of Public Works until 8 P. M., April 17, 1911, for the following quantities: 300 tons 18-in. and 70 tons 14-in. pipe, 1,200 lbs. 14-in. and 5,000 lbs. 18-in. standard castings. J. A. Foster is Pres. Bd.

•✚HORNELL, N. Y.—Bids were received by the City Clerk on March 10 for the construction of an earthen reservoir embankment with concrete core wall and accessories, together with about three miles of water mains. The following contracts have been awarded: For constructing reservoirs, to GRAY & MILLER, of Hornell, at $30,431; for furnishing pipe, to the U. S. CAST-IRON PIPE & FOUNDRY CO., of Buffalo, N. Y., at $20.45 per ton, and $47.50 per ton for specials, a total of $26,286; for constructing pipe line, to GRAY & MILLER, at the following prices: 16-in. c.-i. pipe, 1,845 ft., at 55 cts.; 20-in. c.-i. pipe, 13,220 ft., 59 cts.; 16-in. c.-i. specials, 11,485 lbs., $12.35; setting one 4-in. double brass mounted valve, $1.50; five 6-in. double brass valves, $1.50; four 8-in. double brass valves, $2.25; three 16-in. double brass valves, $5; seven 20-in. double brass valves, $10, a total of $8,988.

NEW YORK, N. Y.—Bids will be received until 2 p. m., April 12, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for Section 1, for furnishing, delivering and installing a boiler plant, complete, in the pumping station to be erected at Whitestone, Boro. Queens; Section 2, for furnishing, delivering and installing a pumping plant, complete, in the pumping station to be erected at Whitestone; Section 3, for furnishing, delivering and constructing a receiving well, suction piping, etc., complete, at the pumping station to be erected at Whitestone; for furnishing, constructing and erecting a pumping station near the existing driven well plant at Whitestone, and furnishing all labor and materials required to complete the contract abandoned by the Robertson & Gerehart Contracting Co., entitled "for furnishing all the labor and materials required to construct and erect a purification plant at Oakland Lake, Third Ward, Boro. Queens," dated August 30, 1909.

Bids will also be received until April 5 for furnishing and delivering cast-iron pipe, special castings and valve box castings.

NEW YORK, N. Y.—Bids were received as follows on March 15 by Henry G. Thompson, Comr. Water Supply, Gas and Electricity, for (a) furnishing and driving wells, furnishing, delivering and laying suction mains and appurtenances in Southfield Boulevard, between Grant City and Old Town Road; (b) same in Southfield Boulevard, between Grant City and Whitlock: Grant Rohrer, 299 Broadway, New York, (a) $31,963, (b) $31,963; Phoenix Construction Co., 41 Park Row, New York, (a) $29,260, (b) $30,360; D. Bonacci, (a) $44,436; (b) $45,276.

NEWPORT, N. Y.—The village has voted to issue bonds for $15,000 for improving the water-works system. J. K. Button is Pres.

NIAGARA FALLS, N. Y.—Plans and specifications have been prepared and submitted to the Board of Water Commissioners for the construction of a water-works system. Estimated cost, about $250,000. Wm. D. Robins is City Engr.

SCHENECTADY, N. Y.—The city is considering the construction of a new standpipe, to have a capacity of 1,000,000 gallons.

TARRYTOWN, N. Y.—The citizens on March 21 voted to issue $70,000 of bonds for enlarging the water supply and laying new mains for fire protection. D. S. Merritt is Engr. Water Bd.

BUFFALO, N. Y.—Bids will be received by the Department of Public Works until 11 a. m., April 1, for constructing and erecting steel and brick superstructure on intake pier; and for furnishing and erecting two internally fired tubular boilers on the intake pier. Francis G. Ward is Comr. Pub. Wks.

✚UTICA, N. Y.—The contract has been awarded by the city to the U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, for furnishing c.-i. pipe and special castings.

Bids will be asked for furnishing 1,200 new curb boxes, a quantity of curb-box extensions, covers, etc.

•NEW YORK, N. Y.—Bids were received by the Board of Water Supply as follows on March 21 for furnishing and installing complete drainage equipment for unwatering the shafts and tunnels on the Rondout siphon, etc.: M. L. Bayard, $49,072; McHarg Barton Co., 165 Broadway, New York, $51,830; Ogden Iron & Steel Mfg. Co., 147 Cedar St., New York, $52,500; D'Olier Engineering Co., Philadelphia, Pa., $46,685; Henry E. Fox, 81 East 125th St., $52,500.

POINT PLEASANT, N. J.—Between $50,000 and $75,000 will be spent by the Point Pleasant Water Co. for improving the water system. William Boardman, Chestnut and Fourth Sts., Philadelphia, Pa., has prepared plans for the work. Noted on March 16.

BELLEVUE, PA.—We are officially advised that the Ohio Valley Water Co. has engaged Chester & Fleming, Consult Engrs., Pittsburg, Pa., to install additional drilled wells for the water supply in Beville Island.

PITTSBURG, PA.—Bids were opened on March 13 by Joseph G. Armstrong, Dir. Pub. Wks., for constructing the Mission St. Pumping Station building and appurtenances. The lowest bid was submitted by Golden & Crick, 3512 Fifth St., Pittsburg, at $94,707.

LEXINGTON, VA.—N. W. Davis, C. E., has been retained to design and superintend the construction of the proposed new water-works for Lexington. Estimated cost, $75,000.

FARMVILLE, VA.—The Town Council has perfected plans for municipal ownership of the water system. Bonds for $65,000 will be issued, of which $48,000 will be expended for the purchase of the plant and the balance for improvements and extensions.

✚JONESBORO, N. C.—Bids were received by D. H. Arnold, Mayor, and Board of Aldermen on March 13 for constructing water-works. The work will consist of furnishing 165 tons of 6-in. and 220 tons of 8-in. pipe, together with hydrants and specials; laying four miles of 6-in. and 8-in. pipe; and furnishing and erecting a 75,000-gallon tower and tank. Contracts have been awarded as follows: To the CHATTANOOGA BOILER & TANK CO., of Chattanooga, Tenn., tank and tower at $3,870; to GLAMORGAN PIPE & FOUNDRY CO., Lynchburg, Va., for pipe, at $24.25 per ton; to ABEE & HART, of Hickory, N. C., at $3,800 for pipelaying and setting hydrants. White & Platt are Engrs., Durham, N. C.

MOREHEAD, N. C.—W. G. Hales, Clk., W.-Wks. Com., will receive bids until April 20 for installing and furnishing the material for the construction of water-works. G. D. Canfield is Chn. W.-Wks. Com.

THOMASVILLE, N. C.—The Board of Aldermen has voted to issue $75,000 of bonds now and $50,000 more after the June assessment for the construction of a water-works and sewerage system.

MACON, GA.—The city has voted $900,000 of bonds, $699,000 of which will be used for the purchase of the Macon Gas Light & Water Co.'s plant and $200,000 for extensions and improvements. John T. Moore, Mayor. Noted on March 2.

PELHAM, GA.—The city has voted $25,000 of bonds for improvements to the water, light and sewerage systems, and other improvements.

ROME, GA.—The city has engaged Hazlehurst & Anderson, Candler Bldg., Atlanta, Ga., as consulting engineer for the proposed water-works, sewer and pavement construction. Bonds for $280,000 have been sold.

SPARTA, GA.—The Mayor and City Council will receive bids at once for the construction of water-works. Plans and specifications are at the office of the City Clerk, or will be sent to those interested. W. H. Stansel is Clk.

DAWSON, SPRINGS, KY.—Plans for the construction of water-works will be prepared by J. W. Holmes, Supt. Water Plant. A reservoir and the laying of about 10,000 ft. of mains are contemplated. Estimated cost, between $12,000 and $15,000.

ALLIANCE, OHIO.—The city is considering the construction of a large storage dam, to form a reservoir with a capacity of 100,000,000 gallons.

ANDOVER, OHIO.—Bids will be received until March 30 by the Board of Trustees of Public Affairs, J. W. Cook, Clk., for constructing a water-works system consisting approximately of 1,786 pieces of 4, 6 and 8-in. water pipe and 9,600 lbs. standard special castings, laying 10,150 ft. 4, 6 and 8-in. pipe in street mains and 600 ft. 8, 6 and 4-in. pipe in suction line, furnishing and setting 35 hydrants and 24 gate valves, 4 to 8-in.; an elevated tank with capacity of 60,000 gallons, on a steel tower, with a total height of 110 ft. L. E. Chapin is Engr., Canton, Ohio.

CINCINNATI, OHIO.—Bids will be received by the Board of Public Service, John J. Wenner, Clk., until April 10 for the construction, delivery and erection of two electrically operated wash-water pumps for the filtration plant of the water-works at California, Ohio.

✚The contract was awarded on March 14 by the city to J. J. BROWN for laying a water main in North Bend Road, from Cheviot to College Hill, at $14,274.

✚COLUMBUS, OHIO.—The contract for furnishing c.-i. pipe and special castings has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., of Columbus. Bids were opened on March 16.

GRANDVIEW HEIGHTS, OHIO.—We are officially advised that bids were received as follows on March 21 for furnishing and laying water pipes: James Westmaster Co., Columbus, Ohio, $31,727; C. T. McCracken & Co., Columbus, $32,475; T. C. Brooks & Son, Jackson, Mich., $30,530; Harry T. Shaw, Columbus, $28,407; William M. Graham, Columbus, $32,579.

LAKEWOOD, OHIO.—Bids will be received until noon, April 4, by E. R. Lieblein, Clk. Bd. of Trustees of Public Affairs, for laying a 12-in. c.-i. service main in Detroit Extension and Gridley St. The Wm. H. Evers Engineering Co., 332-334 The Arcade, Cleveland, Ohio, are Engrs.

LINNDALE (Gresham post-office), OHIO.—Bids will be received at the office of Henry Krause, Village Clk., 1009 Williamson Bldg., Cleveland, until noon, April 6, for the necessary labor and material to construct a 6-in. water main with all necessary appurtenances in Grand Ave., from the center line of Snow Ave. to the northerly limits of the village, in accordance with plans and specifications now on file in the office of the Village Clerk and in the office of [illegible] R. Davis & Sons, Village Engrs., 20[illegible] Arcade, Cleveland, Ohio.

✚NEW LEXINGTON, OHIO.—[illegible] for constructing water-works [illegible] contract has been awarded to the NATIONAL [illegible] South Bend, Ind. Bids were opened on [illegible] 14. List of bidders noted on March 23.

NEWBURG (Cleveland post-office), Ohio. —Bids will be received by [illegible] Shideck, Clk. Bd. of Control, until [illegible] April 15, for the improvement of Ki[illegible] Road, by constructing a water main. [illegible] may be seen at the office of the clerk [illegible] the office of the William Evers En[illegible]ring Co., 332 The Arcade, Cleveland, O[illegible].

PORTSMOUTH, OHIO.—Bids [illegible] be received until noon, April 3, by [illegible] Director of Public Service for water pipe [illegible] sion in portions of Monroe St. and G[illegible] St. H. F. Thompson is Clk.

SUGAR CREEK, OHIO.—Bids [illegible] be received until April 4 by the city [illegible] the construction of a water-works system [illegible] including pipe, specials, hydrants, valves, [illegible] boxes, tank tower, and pipe laying. [illegible] Hahn is City Clk.

FORT WAYNE, IND.—The [illegible] it is reported, will soon be awarded f[illegible] furnishing the city 400 tons of water pipe, [illegible] tons to be 12 and 16-in.

FLINT, MICH.—Plans are being prepared by W. G. Clark, 1050 The Spitzer [illegible] Toledo, Ohio, for the construction of a [illegible] pumping station for the city.

HOLLAND, MICH.—Bids will be received by the Board of Public Works un[illegible] 7.30 p. m., April 4, for sinking a well.

✚KALAMAZOO, MICH.—The co[illegible] for supplying the city with 744 tons [illegible] water pipe and five tons of special ca[illegible] for laying about twelve miles of wa[illegible] mains has been awarded, it is reported, to the LYNCHBURG FOUNDRY CO., of Lynchburg, Va., at about $21,000.

CHICAGO, ILL.—Bids will be received by B. J. Mullaney, Comr. Pub. Wks., until 11 a. m., April 1, for furnishing and delivering three 36-in., five 30-in. and one 24-in. valves.

✚CHICAGO, ILL.—Contracts have been awarded by B. T. Mullaney, Comr. Pub. Wks., as follows: For furnishing and delivering 50,000 lbs. of No. 1 red scrap brass to the water department repair shops, to H. KRAMER & CO., 730 South Canal St., Chicago, at 11⅛ cts. per lb.; for furnishing c.-i. water pipe of various sizes to the city, to the U. S. CAST IRON PIPE & FOUNDRY CO., The Rookery, Chicago, at $23.85 per ton, or $119,000; for furnishing tile pipe to the water department, to WM. E. DEE & CO., 108 La Salle St., Chicago, as follows: 30,000 lin. ft. of 4-in., 3 2-5 cts. per ft., 600 lin. ft. 6-in., 5 cts. per ft., 600 ft. 9-in., 10 cts. per ft.; for furnishing and delivering nine 36-in. gate valves to the Roseland pumping station, to the LUDLOW VALVE MFG. CO., 217 La Salle St., Chicago, at $710 each; for furnishing and delivering 200 tons pig lead to the city water department, to the GARDINER METAL CO., 1374 West Lake Ave., Chicago, at $4.65 per cwt.; for furnishing and delivering to the water department about 15 tons of lead pipe, to the GARDINER METAL CO., at $5.04 per cwt.

JOLIET, ILL.—We are officially advised that nothing definite has been decided regarding the drilling of new artesian wells. If favorable action is taken, bids will probably not be asked short of three months. Noted on March 23.

LEWISTOWN, ILL.—Bids will be received by W. M. Fike, Chn. Water Com., until 7.30 p. m., April 10, for improvements and extensions to the municipal water-works system. The Fuller-Coult Co. are Engrs., Chemical Bldg., St. Louis, Mo.

LYONS, ILL.—Bids will be received until April 4 by the President of the Board of Village Trustees for constructing a brick and concrete building for a pumping station, also furnishing and installing a deep well pump, power head and motive power and appurtenances. W. B. Ewing is Engr., 1208 Chamber of Commerce, Chicago, Ill.

✚BELOIT, WIS.—The Board of Public Works has awarded the contract to the BELOIT WATER GAS & ELECTRIC CO. for laying water and gas laterals.

MILWAUKEE, WIS.—Bids will be received by the Department of Public Works until March 31 for furnishing all materials and constructing water mains in such streets in the city as may be directed by the department during the year 1911. Bidders must state separate prices for laying 6-in., 8-in., 12-in. and 16-in. c.-i. pipe. Harry E. Briggs is Comr. Pub. Wks.

RICHLAND CENTER, WIS.—Bids will be received until 7.30 p. m., April 18, 1911, by Reuben Sutton, City Clk., for erecting a 110-ft. or 125-ft. brick or concrete chimney. Plans and specifications are on file at the offices of the City Clerk, and W. G. Kirchoffer, 31 Vroman Bldg., Madison, Wis., Consulting Engr.

WATERTOWN, WIS.—Bids will be received by the Board of Park Commissioners until 8 p. m., April 3, for establishing a sprinkler system in the Sixth Ward Park. The work consists of furnishing and setting up complete a turbine pump, including electric motor, furnishing and laying of 1,605 ft. of 3-in. pipe, 625 ft. of 2½-in. and 2[illegible]0 ft. of 2-in. pipe and all necessary fittings and fixtures, and furnishing 400 ft. of 1-in. rubber hose and four automatic revolving sprinklers. E. J. Brandt is Chn. Bd.

WAUSAU, WIS.—See item under Light, Heat and Power.

NORTHFIELD, MINN.—The City Council will receive bids until March 31 for one 500-gallon per min. triplex pump, with 3[illegible] HP. electric motor and step-down transformers. Edward P. Burch is Engineer, Minneapolis, Minn.

✚ST. PAUL, MINN.—The Board of Water Commissioners, John Caulfield, Secy., has awarded the contract for the construction of

the brick mping station at McCarron's Lake to C RON & CO., 619 Ryan Annex, St. Paul, $5,260. Taylor & Tewes are Archs., ul.

HERIN N, KAN.—We are officially advised th ns are being prepared for increasing water supply, taking water from L reek. Bids will be asked in April. mated cost, $10,000. Burns & McDonn arritt Bldg., Kansas City, Mo., are Eng

LIND G, KAN.—Bids will be received by the Clerk until 6 p. m., April 3, for construc a pump pit and addition to water ght plant.

SEN KAN.—Plans for increasing the water , we are officially advised, have been ted. Bids will be asked until April Amount of bond issue, $15,000. Burns McDonnell are Consult. Engrs.

MOR TOWN, S. DAK.—We are officially advise at the cost of constructing water-works has been estimated at $10,000. J. P. y is Town Clk. Noted on March 16.

MA N. DAK.—We are officially advised plans have been completed for the co ction of water-works and bids will be as in April. Estimated cost, $65,000. Burns McDonnell are Consult. Engrs.

✚AB DEEN, WYO.—The contract has been ded to JAMES KENNEDY, of Fargo, N k., by the city, for the construction of 8,6 ft. of 10-in. and 6,550 ft. of 14-in. water in, at $24,850. Bids were opened on Mar 6.

BAS WYO.—Plans, we are officially advised, e being prepared by Burns & McDonn Consult. Engrs., Scarritt Bldg., Kans City, Mo., for water-works, lighting and wer improvements. Estimated cost, $75,0 Bids will be asked in April.

MOORCROFT, WYO.—Plans have been completed, we are officially advised, for water works improvements here. Estimated cost, $15,000. Bids will be asked in May. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

UPTON, WYO.—Plans have been completed by Burns & McDonnell, we are officially advised, for the construction of water-works. Estimated cost, approximately $20,000. Bids will be asked in May.

BOZEMAN, MONT.—The Buell Land Co., of Bozeman, is considering the construction of a rock dam on Taylor's Fork, about one-half mile from the West Gallatin River in Gallatin County, for irrigation purposes.

PRINCETON, MO.—Rollins & Westover, Consult. Engrs., Beals Bldg., Kansas City, Mo., are preparing plans and estimates for the construction of a system of water-works here.

ARCHER CITY, TEX.—Plans have been outlined for the construction of a new water-works system. The water supply will be secured from an artificial lake. An election to vote on the proposition will be held. Estimated cost, $12,000. W. C. Young is Mayor.

BRENHAM, TEX.—The City Council has ordered improvements made to the water-works plant. A new brick building for the pumping station will be built and 100 additional water meters installed. Henry E. Booker is Supt.

BROWNSVILLE, TEX.—The city has voted $35,000 of bonds to double the capacity of the water-works system.

CALDWELL, TEX.—The city will receive bids until April 6 for the construction of concrete foundation and a 16 × 100-ft. steel standpipe. J. A. Gray is Mayor.

FORT WORTH, TEX.—The recent sale of $2,000,000 of bonds by the city has provided the money necessary for the construction of a large surface reservoir for the water-works system and for the carrying out of other municipal improvements. J. D. Trammell is City Engr.

GRAND FALLS, TEX.—The Consolidated Reservoir & Irrigation Co., of Grand Falls, which recently took over the holdings of the Big Valley Irrigation Co., the Grand Falls Lake & Reservoir Co., and the Grand Falls Mutual Irrigation Co., will, it is announced, spend about $600,000 in enlarging the merged irrigation system. Large storage reservoirs and canals will be constructed and pumping plants installed.

HOUSTON, TEX.—A syndicate of Houston men, it is reported, consisting of Carey Shaw, C. L. Bradley, K. H. Cawthon, Edward Kennedy and others will install a water-works system and other public utilities upon a subdivision of 830 acres of land situated near here.

OLNEY, TEX.—Bonds have been voted for $10,000 for the installation of a new water-works system. The work will include 2,000 ft. of 8-in. and 3,500 ft. of 6-in. mains, ten fire plugs, well, pump, boiler, pumping station and tower 100 ft. high. M. P. McCuchen is Mayor.

✚ALTUS, OKLA.—The contract has been awarded to the TERRY CONSTRUCTION CO., of Poteau, Okla., for completing the ditching, about four miles, for water and sewer systems.

✚FAIRFAX, OKLA.—The contract has been awarded to J. B. DAVIDSON, 435 Lee Bldg., Oklahoma City, Okla., for the construction of a water-works system here. E. T. Archer & Co. are Engrs., Beals Bldg., Kansas City, Mo.

SAPULPA, OKLA.—Plans are being prepared for the construction of a new water-works plant here. Bids will be asked some time in April. Estimated cost, $260,000. Burns & McDonnell are Engrs.

GUNNISON, COLO.—We are officially advised that plans and specifications have been completed for water-works and lighting improvements, including a 215-HP. water-power development on the Gunnison River. Estimated cost, $90,000. Bids will be asked in May. Burns & McDonnell are Consult. Engrs., Scarritt Bldg., Kansas City, Mo.

ALAMOSA, COLO.—The citizens on March 7 voted to construct a system of water-works.

STERLING, COLO.—Plans are being prepared by the L. L. Stimson Engineering Co., of Greeley, Colo., for the construction of a canal and reservoirs on the south side of the Platte River, between Sterling and Julesburg.

*BOISE, IDAHO.—Bids will be received by the U. S. Reclamation Service, Shaw Bldg., Boise, until 10 a. m., June 1, for the enlargement of the Main South Side Canal between Stations 789 and 799 near Boise. The work will involve the excavation of 13,000 cu. yds. of material. For particulars address the U. S. Reclamation Service, Washington, D. C., or Boise. Frank Pierce is Acting Secy.

✚CARSON CITY, NEV.—The Secretary of the Interior has approved a contract between the Reclamation Service and the LIDGERWOOD MFG. CO., 279 Dearborn St., Chicago, Ill., to furnish a complete cableway and conveyor for use in the construction of the storage dam on the Carson River, Truckee-Carson Irrigation project, Nevada. The contract price of machinery is $13,200. The cableway will have a span of 1,600 ft., adapted to handle an average load of six tons and a maximum load of ten tons. It will be operated by electricity.

OGDEN, UTAH.—See item under Light, Heat and Power.

✚PHOENIX, ARIZ.—Bids were received on March 10 by the U. S. Reclamation Service, Los Angeles, Cal., for furnishing turbine water-wheels for the Salt River project, Arizona. The contract has been awarded to the S. MORGAN SMITH CO., of York, Pa., at $18,100.

TACOMA, WASH.—The Bates & Clark Co., Pacific Bldg., Tacoma, have submitted the lowest bid to the Board of Public Works for the construction of a pumping station here at $11,771. The lowest bid for the steel tower on Magnolia Big Bluff, to be supplied from this station, was submitted by the Chicago Bridge & Iron Works, Chicago, Ill., at $13,596. The lowest bid for water mains in North and West 74th Sts. was submitted by the Ferguson Construction Co., at $26,515.

FALLS CITY, ORE.—Bids will be received soon for the construction of a water-works system. J. L. Stannard, Henry Bldg., Portland, Ore., is Arch. Estimated cost, about $20,000.

FALLS CITY, ORE.—Bids will be received until 7.30 p. m., April 4, by the City Council for the construction of a gravity water system. Plans and specifications may be seen at the office of the Auditor and Police Judge at Falls City, or at the office of J. L. Stannard, 410 Henry Bldg., Portland, Ore.

✚KLAMATH FALLS, ORE.—Bids were received at the office of the U. S. Reclamation Service, Klamath Falls, on March 10 for the construction of Schedule 1 of the Lost River Diversion Channel, located about ten miles southeast of Klamath Falls. The work consists of about 7/10 mile of drainage channel and about 35,000 cu. yds. of excavation and embankment. The contract has been awarded to JAMES W. TORY, of Midland, Ore., at $7,600.

PORTLAND, ORE.—Extensions to the city's water system aggregating $332,000 have been ordered made by the Water Board and the Water Department will start on the construction of the projected mains immediately. These include the laying of reinforcing mains in the South Portland District, between College and Corbett Sts., costing $16,000; Kings Heights, $25,000; Mt. Scott and Woodstock, $82,000; extensions in various parts of the city costing approximately $111,000, the chief of which is an entirely new system.

PORTLAND, ORE.—Bids will be received until 4 p. m., April 1, by the Water Board for furnishing approximately 1,800 ft. of 12-in. lap-welded steel pipe, and 2,700 ft. 10-in. lap-welded steel pipe, together with couplings and fittings as called for in the specifications.

SAN FRANCISCO, CAL.—The tentative plans of Marsden Manson, City Engr., for the season's work on the municipal water project were approved by the Board of Public Works on March 16.

ONTARIO, CAL.—Bids will be asked soon by the city for the construction of three reinforced concrete reservoirs, with capacities of 400,000, 1,000,000 and 2,000,000 gallons each. F. E. Trask is Consult. Engr.; Homer Laughlin Bldg., Los Angeles, Cal.

PORTERVILLE, CAL.—The Council has awarded the contract to the U. S. PIPE CO., of Los Angeles, Cal., for supplying to city c.-i. pipes, valves, fittings and all other material necessary for connecting the new city water plant with the 8-in. mains which will be constructed throughout the business district.

✚SAN LUIS OBISPO, CAL.—Bids for furnishing water pipe and connections necessary for a water pipe line from dam to the new reservoir have been received from the following: C. H. Reed & Co., of San Luis Obispo, Converse lock joint c.-i. pipe and fittings, $11,146; steel riveted pipe, $12,660. Crane Co., of San Francisco, for lock joint pipe, $11,314. Baker Iron Works, of Los Angeles, steel riveted pipe, $11,734. The bid of C. H. REED CO. for 4-in. Converse lock joint c.-i. pipe and fittings was accepted.

SUSANVILLE, CAL.—Articles of incorporation of the Baxter Creek Irrigation Co. have been filed with the County Clerk. The company is taking over different holdings and will construct a reservoir near Jamesville, utilizing the water of Baxter Creek for the irrigation of land between Jamesville and Honey Lake.

FORT BIDWELL, CAL.—We are officially advised that the Modoc County Irrigation Co., Fort Bidwell, is planning to irrigate 100,000 acres of land. A 3,400-ft. tunnel, a dam, and the ditches for 200,000 acres will be put in this summer. Work will start in June or sooner if location surveys are completed before that month. The money for the work is available. Charles Kirby Fox is Ch. Engr.

KINGSBURY, CAL.—Bids were opened as follows on March 15 by the City Trustees for the construction of the municipal water system: George A. Rogers, $25,971; Braun, Russell & Williams, $23,759; F. C. Roberts, $25,770; Western Engineering & Water Supply Co., $25,947; P. S. Austin, $26,310; Pacific Fire Extinguisher Co., $25,731. Olmstead & Gilellen are Engrs., Wright & Callender Bldg., Los Angeles, Cal.

SANTA ANA, CAL.—S. S. Forney, of Los Angeles, has petitioned the County Board of Supervisors of Orange County for a franchise for 50 years, to lay water pipes in the roads of the county.

VALLEJO, CAL.—Bids were received as follows on March 25 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a circulating loop at Mare Island Navy Yard: Grant Fee, Monadnock Bldg., San Francisco, Cal., Item (1) $39,000; Item (2) $41,000. American Construction Co., Monadnock Bldg., San Francisco, (1) $53,871, (3) $53,000; Healy-Tibbitts Construction Co., 9 Main St., San Francisco, (1) $61,880.

FORT WILLIAM, ONT.—Bids will be received by the Chairman of the Utilities Committee until April 5 for all labor and material required for laying 18-in., 14-in., 12-in. and 8-in. water mains, and making necessary connections, valves, etc. John Wilson is City Engr.

✚LETHBRIDGE, ALTA.—The COZIER CONSTRUCTION CO. has received a large contract from the Alberta R. R. & Irrigation Co. for irrigation work.

WETASKIWIN, ALTA.—Bids will be received by T. J. Brown, Res. Engr. Canadian Pacific Ry. Co., Calgary, Alta., until noon, April 8, for digging, laying and back filling pipe line for water supply at Wetaskiwin.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

*EAST AURORA, N. Y.—Bids will be received by the Board of Trustees of the Village of East Aurora until 8 p. m., April 18, for the furnishing material and performance of labor for the construction of a sewer system, including a sewage disposal plant. Plans and specifications on file in the office of the Clerk. The work includes the construction of approximately 80,000 ft. of sewers ranging from 8-in. tile to 24-in. tile, also iron pipe and other appurtenances, together with the construction of a sewage disposal plant. D. N. Rumsey is Clk. For further particulars see advertisement.

FRANKLINVILLE, N. Y.—This village has voted funds for a preliminary survey and specifications for a sewer system.

NEW YORK, N. Y.—Bids will be received until 11 a. m., April 5, by Alfred E. Steers, Pres. of the Boro. of Brooklyn, for furnishing all the labor and materials required for foundation for sewer in Neptune Ave., from West 33d St. to the pump well at caisson No. 2, near West Twelfth St., together with an intermediate pumping station and appurtenances at the intersection of Neptune Ave. and West 29th St., and for the reconstruction of sewer in Neptune Ave., between Station 7 + 15 and Station 14 + 02. Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, the Borough of Brooklyn, 215 Montague St., Brooklyn.

YONKERS, N. Y.—The Board of Contract and Supply (J. V. Mahony, Secy.) will receive bids until April 3 for constructing a sewer in Alexander St., between Ashburton and Wells Aves. Plans and specifications prepared by S. L. Cooper, City Engr.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners until April 6, for the construction of the following sewers: McWhorter and Johnson St. sewer—1,430 lin. ft. of 3 × 4-ft. brick sewer, 740 lin. ft. of 2-ft. 6-in. × 3-ft. 9-in. brick sewer, 45 lin. ft. of 3-ft. brick sewer, 280 lin. ft. of 6-in. house connections, 12 manholes with iron heads and covers complete, 16 markers. Time allowed, 75 days. Coeyman St. sewer—571 ft. of 10-in. pipe sewer, 370 ft. of 6-in. house connections, 3 manholes including one junction manhole, 31 markers; time allowed 15 days. Ardsley Court sewer—225 ft. of 10-in. pipe sewer, 70 ft. of 6-in. house connections, 3 manholes with noiseless heads complete, 7 markers; time allowed eight days.

LEBANON, PA.—Bids will be received about May 1 for building a sewage disposal plant to cost about $120,000. W. Crowell is City Engr.

WYOMING, PA.—Bids will be received by V. Breese until 7.30 p. m., March 31, for the construction of sewers comprising approximately 5,184 ft. of 20-in., 1,840 ft. of 15-in., 1,340 ft. of 12-in., 4,415 ft. of 10-in. and 31,760 ft. of 8-in. sewer, 29,750 ft. of 6-in. house connections, 70 manholes and 40 lampholes. E. L. Smith is Chn. Sewer Com.

BALTIMORE, MD.—The Board of Awards will receive bids until April 19 for furnishing and building sewage screens for sewage-disposal works. Calvin W. Hendrick is Ch. Engr. Sewerage Com., American Bldg.

Bids were received as follows on March 15 by the Board of Awards, at the office of J. Sewell Thomas, City Register, City Hall, Baltimore, for the construction of storm water drains, Storm Water Contract No. 12: C. B. Clark & Co., Huntington Ave. and 31st St., City, $83,246; McCauley-Manton Co., Ave. M and Ocean Parkway, Brooklyn, N. Y., $88,439; The David M. Andrew Co., Baltimore, Md., $98,859; The Whiting-Middleton Construction Co., Sexton Bldg., Baltimore, Md., $99,981; Ryan & Reilly, Coleman Bldg., Philadelphia, Pa., $99,705; B. F. Sweeten & Son, Baltimore, Md., $100,646; David Peoples, 60 Knickerbocker Bldg., City, $100,415; W. H. & C. F. Thompson, 627 Law Bldg., City, $112,228; Wm. McCarthy & Co., Baltimore, Md., $113,039; James Ferry & Sons, Inc., Grafton Sta., Pittsburg, Pa., $143,333. Calvin W. Hendrick is Ch. Engr. Sewerage Com.

FORT MONROE, VA.—See item under Streets and Roads.

MOUNDSVILLE, W. VA.—Bids were received by Oscar B. Bonar on March 21 for the construction of a sanitary sewer system and surface drainage sewers: Henning-Vineyard Co., Evansville, Ind., $228,913; Thorney Pietro, Morgantown, W. Va., $151,944; Whiting-Middleton Construction Co., Baltimore, Md., $274,217; P. J. Curran, Knoxville, Tenn., $168,965; J. B. McClain & Co., Newport, Ky., $180,087; Van Meter Construction Co., Steubenville, Ohio, $138,216; Althous Construction Co., St. Louis, Mo., $207,600; Trainer & Scanlon, Huntington, W. Va., $175,563; James Ferry & Sons, Pittsburg, Pa., $163,500; Roser & Maloney, Bellaire, Ohio, $153,511; Central Construction Co., Pitsburg, Pa., $171,000; M. O'Hern Co., Pittsburg, Pa., $202,000; John W. Stringer, Royland, Ohio, $144,727; Thomas S. Savage, Parkersburg, W. Va., $155,932; W. H. & C. F. Thompson, Baltimore, Md., $180,693; B. F. SWEETEN & SON (awarded contract), Camden, N. J., $138,257.

✚JACKSONVILLE, FLA.—Bids were received as follows on March 15 for labor and material necessary to construct sewers: F. W. LONG & CO., Jacksonville, Fla., $32,559 (awarded contract); Bryan & Co., Jacksonville, Fla., $35,190; Logan Concrete & Engineering Co., Jacksonville, Fla., $36,005. R. N. Ellis is Supt. Water & Sewer Dept.

*PENSACOLA, FLA.—Bids will be received by the Board of Bond Trustees, City Hall, until noon, May 2, for constructing storm water drains and sanitary sewers. The work to be done consists of approximately 15,000 lin. ft. of storm water drains from 66 ins. to 10 ins. in diameter, and 23,880 lin. ft. of sanitary sewers from 24 in. to 6 in. in diameter, with all the necessary appurtenances. Plans and specifications may be obtained from the Board of Bond Trustees, John A. Merritt is Chn.

KNOXVILLE, TENN.—Bids will be received by W. P. Chandler, City Rec., until noon, April 5, for the installation of about 3,000 ft. of storm sewer.

AKRON, OHIO.—Bids will be received until noon, April 5, by the Board of Control for sewer work in following streets: Wooster Ave., from East Ave. to a point 120 ft. westerly from Moon st.; storm water sewer in Bell St., from Wooster Ave. to Orlando Court, and in Orlando Court, from Bell St. to Willow Run Conduit; main trunk sewer in and along the towing path of the Ohio Canal, through Miller Park and Glendale Cemetery, from Little Cuyahoga River Dam to point in Glendale Cemetery, about 1,500 ft. from Exchange St.

COLUMBUS, OHIO.—A resolution has been adopted by the City Council declaring it necessary to construct a sewer in Chapel St., from Mitchell St. to Stokes Ave., and in Stokes Ave., from Capital St. to Town St.

GIRARD, OHIO.—Bids will be received by the Village Council until noon, April 10, for the construction of sewers and the house connections thereon from the sewers to the curb lines in part of sewer district No. 1. Plans and specifications may be seen and blank forms for bids had at the office of James E. Scotler, Village Clk.

GRANDVIEW HEIGHTS, OHIO.—Bids were received as follows by the Clerk of the Village of Grandview Heights on March 21 for furnishing labor and materials necessary to construct a sewer with an outlet outside of the corporate limits: John C. Beasley, Columbus, Ohio, $18,797; Joseph Westwater Co., Columbus, Ohio, $23,252; C. I. McCrocken & Co., Columbus, Ohio, $19,507.

LIMA, OHIO.—Bids will be received by the Director of Public Service until noon, April 4, for the furnishing of all tools, material and labor and constructing 12-in. first-class quality of vitrified pipe sewer, from Madison Ave. to Michael's Addition on Vine St., and from Vine St. to the south end of Scott St. on Scott St.

XENIA, OHIO.—Bids will be received by the Board of County Commissioners of Greene County, Ohio, at the office of the County Auditor, in Xenia, Ohio, until 11:30 a. m., May 1, for performing the labor and furnishing the necessary material for the construction of a sanitary sewer on the Greene County, Ohio, Infirmary grounds and premises and for the preparatory sewage treatment devices in accordance with the plans and specifications on file in the office of the Auditor of Greene County, and also in the office of A. Elliott Kimberly, Sanitary Engr., 827 Columbus Savings & Trust Bldg., Columbus, Ohio.

INDIANAPOLIS, IND.—See item under Streets and Roads.

ESCANABA, MICH.—See item under Streets and Roads.

✚NILES, MICH.—The Board of Public Works has directed George Selfridge, Pres., and Herman Roebach, City Clk., to award a contract to HEYSTEK & CO., Kalamazoo, Mich., for the construction of the main trunk sewer in Niles. This will cost $22,000. The sewer will be finished by Aug. 1.

AURORA, ILL.—Bids will be received by the Sewer Committee until 5 p. m., March 31, for castings for use in sewer department.

CHICAGO, ILL.—Bids will be received by the South Park Commissioners, 57th St. and Cottage Grove Ave., until noon, April 19, for furnishing iron sewer castings to be delivered at various points within the South Park system. James H. Burdett is Secy.

Bids will be received by the South Park Commissioners, 57th St. and Cottage Grove Ave., until noon, April 19, for furnishing and delivering sewer pipe at various points within the South Park system previous to June 1. James H. Burdett is Secy.

*CHICAGO HEIGHTS, ILL.—The Board of Local Improvements will receive bids until 7.30 p. m., April 5, for the following on storm sewer No. 3: 5,514 ft. of reinforced-concrete sewer pipe ranging from 24 to 42 ins.; 6,798 ft. of tile pipe, ranging from 15

to 18 ins.; 101 catch basins; 39 manholes; 15 cu. yds. of concrete. Plans and specifications are on file in the City Clerk's office. W. E. Lennertz is Secy.

BLANCHARDVILLE, WIS.—Bids will be received until 7.30 p. m., March 31, for the construction of sewers as follows: Approximately 176 ft. of 18-in., 309 ft. of 15-in., 124 ft. of 12-in., 626 ft. of 10-in., with suitable appurtenances. Plans and specifications prepared by Paul Hodges, Engr., Monroe, Wis., and now on file in his office and with the Village Clk.

✚MILWAUKEE, WIS.—The Department of Public Works has awarded contracts for $15,-000 worth of sewer construction to GEORGE E. ZIMMERMAN, Milwaukee, and contracts amounting to $5,000 to T. SZUKALSKI, Milwaukee. Harry E. Briggs is Comr. Pub. Wks.

✚RACINE, WIS.—The Board of Public Works received bids on March 18 for the construction of a sewer in Ninth St. and Lockwood Ave.: C. P. Marsen, 1301 14th St., Racine, Wis.; Hans C. Hanson, 2352 Kinzie Ave., Racine, Wis.; P. B. Johnson, 944 Washington Ave., Racine, Wis.; ANDREW THOMSEN (awarded contract), 1424 Howe St., Racine, Wis.; Robert Nelson, 1915 Washington St., Racine, Wis.; N. F. Reichert, 107 Fourth st, Racine, Wis. P. H. Connolly is City Engr.

WATERTOWN, WIS.—Bids were received as follows by the Board of Public Works on March 18 for the construction of a sanitary sewer here: F. E. Kannieski, Watertown, Wis., $10,993; Ed. L. Bartlett, Watertown, Wis., $11,150; Pastoret-Lawrence Co., Duluth, Minn., $11,548; G. H. Stanchfield, Fond du Lac, Wis., $11,662; Sistrup & Olson, Minneapilos, Minn., $12,006; C. H. Dailey & Son, Waukesha, Wis., $12,284; Magnee Johnson, Minneapolis, Minn., $12,289; Sbrist. Johnson, Oshkosh, Wis., $12,314; L. W. Schruth, Fargo, N. Dak., $12,440; Swanson Co., 834 W. Clark St., Chicago, Ill., $13,163. Arnold Kraeft is City Engr.

BRAINERD, MINN.—Bids will be received until April 17 by the City Council for the construction of a sewer here. V. N. Roderick is City Clk.

MINNEAPOLIS, MINN.—Henry N. Knott, City Clk., will receive bids until 7.30 p. m., March 31, for furnishing tools and materials for sewer construction during ensuing year.

VIRGINIA, MINN.—The City Council will receive bids until 8 p. m., April 4, for the furnishing of all labor and material for the construction of a storm sewer along Mesaba, Wyoming and Cleveland Aves., south of Locust St. Albert E. Bickford is City Clk.

BASIN, WYO.—See item under Water Supply—Irrigation.

✚CAMERON, TEX.—The contract has been awarded to HAMILTON BROS., Chicago, for the construction of a sewerage system at $15,000.

DUNCAN, OKLA.—Work will start April 1 in the city of Duncan, Okla., on a system of sanitary main and lateral sewers; also a storm sewer. Vitrified pipe will be used and the following are the quantities: 11,650 ft. 8-in., 20,300 ft. 10-in., 3,350 ft. 12-in., 1,700 ft. 15-in., 925 ft. 18-in., 460 ft. 21-in. Cuts will vary from 3 ft. to 15 ft. A sewage disposal plant will be installed. The waterworks system will also be extended. Improvements will cost approximately $50,000. W. L. Benham, Super. and Contract. Engr., 714-16 Campbell Bldg., Oklahoma City, Okla.

GOLDEN, COLO.—S. A. Cunningham, Mayor, will receive bids until 8 p. m., April 1, for the construction of sanitary sewers and appurtenances in Sanitary Dist. No. 2.

NAMPA, IDAHO.—Plans are being completed for sanitary sewers and bids will be asked some time in May. Estimated cost of complete improvements, $150,000.

FORT DOUGLAS, UTAH.—Bids will be received until 10 a. m., April 11, by F. W. Rowell, Constr. Q. M., U. S. A., for the construction of catch basins, drains, etc.

SEATTLE, WASH.—Bids will be received by C. B. Bagley, Secy. of the Board of Public Works, until April 21, for the construction of Interbay Dist. of the north trunk sewer, in the Seattle Dist. No. 1537. Plans and specifications filed in the office of the Board of Public Works.

CENTRAL POINT, ORE.—Bids will be received until 5 p. m., April 20, for constructing a sewer system for the city. The work will consist of excavating and back filling trenches, hauling and laying sewer pipe, constructing manholes and inlets. All labor and material to be furnished by the contractor. Plans may be seen and specifications obtained at the office of the City Recorder of Central Point, Oregon, or at the office of Osgood & Cummings, Civil Engrs., Medford, Oregon.

PRINCE ALBERT, SASK.—Bids will be received by the Commissioners of Prince Albert until noon, April 15, for the construction of a main intercepting sewer, as follows: 5,749 lin. ft. 4-ft. 6-in. × 3-ft. concrete sewer, 4,640 lin. ft. 4-ft. 3-in. × 2-ft. 10-in. concrete sewer, 2,798 lin. ft. 4-ft. × 2-ft. 8-in. concrete sewer, 19 manholes. Alternate bids for reinforced-concrete pipe will be considered. F. A. Creighton is one of the Comrs.

GARBAGE DISPOSAL.

ROCHESTER, N Y.—Bids were received on March 15 by the Board of Contract and Supply for constructing an incinerating plant for rubbish on lands between Falls St. extension and Genesee River. The only bid received was that of the Decarie Incinerator Co., Hopkins, Minn., at $82,950.

TROY, N. Y.—The Board of Contract and Supply has awarded the contract for the disposal of the city's garbage for a period of two years to ZEPH F. MAGILL at $1,000 per month.

ERIE, PA—The Mayor has signed an ordinance providing for an issue of $38,000 of bonds for the construction of a garbage destructor plant.

HUTCHINSON, KAN.—Everett & Howard have submitted the only bid to the city for a new city incinerator.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—Bids will be received by L. K. Rourke, Comr. Pub. Wks., until April 4, for the construction of tar macadam roadways and artificial stone sidewalks in Ainsworth and Danville Sts., West Roxbury District, in Emmet St., South Boston, and Garnville St., Dorchester.

BOSTON, MASS.—Bids will be received by R. C. Hollyday, Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., April 29, for constructing vitrified brick pavement and railroad tracks at the United States Navy Yard, Boston. Plans and specifications can be obtained on application to the Bureau or to the commandant of the navy yard.

BOSTON, MASS.—Bids will be received until April 3 for repairing concrete and stone sidewalks. L. K. Rourke is Comr. Pub. Wks.

LYNN, MASS.—Bids will be received by George H. McPhetres, Comr. Sts. and Highways, until 5 p. m., April 1, for laying approximately 20,000 sq. yds. of paving.

DERBY, CONN.—We are officially advised that bids will soon be asked for constructing about one mile of road at a cost of $5,000. James D. Donahue is City Clk.

*ALBANY, N. Y.—Bids will be received by the State Highway Commission, S. Percy Hooker, Chn., until 1 p. m., April 24, 26 and 28, for highway improvement. For details, see list of advertisements.

*ALBANY, N. Y.—Bids for the improvement of public highways by State aid, were received on March 22, by the State Commission of Highways, Irving J. Morris, Secy., 53 Lancaster St., Albany, N. Y., as follows:

✚Road No. 886, Lexington-Prattsville, Greene County, 4.19 miles: James E. Martin, Poughkeepsie, N. Y., $67,000 (Residuum), $70,000 (Bermudez), $69,700 (Trinidad); Folk & Menzies, Buffalo, N. Y., $63,000, $66,-000 and $65,000; Samuel Boskin, Fishkill-on-Hudson, N. Y., $60,460, $62,260 and $62,260; Peter F. Connely Co., Boston, Mass., $63,940, $66,500 and $66,700; Catskill Construction Co., Catskill, N. Y., $57,000, $59,000 and $59,000; Catskill Supply Co., Catskill, $61,-750, $63,900 and $63,900; DE GRAFF & HOGEBOOM, Kingston, N. Y., (awarded contract on Residuum), $55,847, $58,000 and $58,000; Thomas Meehan & Sons, Philadelphia, Pa., $62,174, $64,092 and $63,833; S. B. Van Wagonen, Rondout, N. Y., $56,900, $59,-100 and $59,100; General Construction Co., Bridgeport, Conn., $66,950, $68,950 and $69,-000; John A. Consalus, Albany, $59,440, $61,-440 and $61,440; Joseph Walker, New Paltz, N. Y., $58,124, $60,284 and $59,744.

✚Road No. 887, South Cairo-Cairo, Greene County, 3.15 miles: General Construction Co., Bridgeport, Conn., $41,400 (Residuum), $42,-900 (Bermudez), $43,000 (Trinidad); James E. Martin, Poughkeepsie, $46,000, $48,000 and $47,900; DE GRAFF & HOGEBOOM, Kingston (awarded contract on Residuum), $36,-118, $37,650, $37,650; Thomas Meehan & Sons, Philadelphia, Pa., $40,188, $41,-099 and $40,955; Catskill Supply Co., Catskill, $39,500, $40,990 and $40,990; John E. Consalus, Albany, $39,345, $41,145 and $41,145; Charles E. Hoorne, Millbury, Mass., $44,000, $46,000 and $46,000; Catskill Construction Co., Catskill, $38,000, $39,950 and $39,950; S. B. Van Wagonen, Rondout, $38,-992, $40,520 and $40,520; Joseph Walker, New Paltz, $36,145, $37,673 and $37,291.

✚Road No. 5,090, E. Pembroke-Pembroke, Part 2, Genesee County, 4.77 miles: Schroeder-Hicks Contracting Co., Rochester, $54,-000 (Residuum), $56,900 (Bermudez) and $56,200 (Trinidad); HUCKNELL CONSTRUCTION CO., Albion, N. Y. (awarded contract on Residuum), $50,000, $52,857 and $52,142; Miller & Knickenburg, Buffalo, $51,-796, $54,653 and $53,939; Fred J. Mumm, Buffalo, $50,988, $53,845 and $52,168; Niagara Construction Co., Corning, $50,320, $53,-175 and $52,460.

✚Road No. 874, Nobleboro-Morehouseville, Hamilton County, 5 miles: Semper Bros., Watertown, N. Y., $55,517; CREEDEN & PITOU, 27 William St., New York City (awarded contract), $49,670; J. D. Moynehan, Mohawk, N. Y., $49,990; Buckley Construction Co., Plattsburg, N. Y., $53,000; Newport Construction Co., Newport, N. Y., $55,800; Richard Hopkins, Troy, N. Y., $52,-878.

✚Road No. 5,077, Martinsburg-Turin, Lewis County, 3.08 miles: Burns Bros. & Haley, Watertown, $35,968 (Residuum), $38,164 (Bermudez), and $38,164 (Trinidad); THOMAS SHAUGHNESSY CO., Albany, (awarded contract on Residuum), $35,600, $39,000 and $39,000.

Road No 883, De Ruyter-Otselic, Part 1, Madison County, 2.14 miles: Joseph McCormick, E. Providence, R. I., $25,263. Not awarded; to be readvertised.

✚Road No. 5,078, Wampville-Oneida Castle, Madison County, 2.56 miles: Charles O. McComb, Syracuse, N. Y., $35,700 (Residuum), $37,700 (Bermudez), and $37,600 (Trinidad); oJhn H. Wagman, Syracuse, $36,200, $38,200 and $38,200; NEWPORT CONSTRUCTION CO., Newport, (awarded contract on Bermudez), $33,220, $34,800 and $34,400.

✚Road No. 409, Fort Plain-Starkville, Montgomery County, 6.22 miles: Brown & Lowe, Schenectady, $94,920 (Residuum); James E. Martin, Poughkeepsie, $90,000 (Residuum), $91,000 (Bermudez), $91,000 (Trinidad); Baker & Banker, Herkimer, $95,000, $98,000 and $99,000; T. H. Gill Co., Boston, Mass., $89,000, $92,000 and $92,000; JOSEPH WALKER, New Paltz (awarded contract on Bermudez), $80,554, $82,863 and $82,285.

✚Road No. 837, Waterville-Deansboro, Oneida County, 4.77 miles: Sherrill Hardware & Plumbing Co., Hudson Falls, N. Y., $51,408 (Residuum), $54,860 (Bermudez), $54,677 (Trinidad); Spellman-Oliver Co., Chateaugay, $58,970, $62,641 and $62,276; Brown & Lowe, Schenectady, $50,972, $53,-910 and $53,176; Creeden & Pitoum, New York City, $54,924, $57,940 and $57,200; Newport Construction Co., Newport, $54,560, $57,550 and $56,750; Paddock & Williams, Memphis, N. Y., $53,300, $57,000 and $57,000; Thomas Grady & Co., Rochester, N. Y., $54,-703, $58,375 and $57,641; Kennedy Roof & Paving Co., Utica, N. Y., $50,580, $53,509 and $53,000; Daniel I. Mock, Utica, $54,499, $57,-721 and $57,721; Folk & Menzies, Buffalo, $52,500, $55,400 and $54,700; JOSEPH WALKER, New Paltz (awarded contract on Residuum), $49,950, $52,870 and $52,870; Henry W. Roberts & Co., Utica, N. Y., $54,850, $59,000 and $58,500; Thomas C. McDermott, Utica, N. Y., $51,952, $54,155 and $53,421; Dale Engineering Co., Utica, $53,315, $56,-880 and $56,880; Burns Bros. & Haley, Watertown, $52,509, $56,250 and $56,400; Semper Bros., Watertown, $54,000, $57,000 and $56,000.

✚Road No. 838, Saquoit, Oneida County, .56 miles: Daws & Van Sleight, Clinton, N. Y., $8,741 (Residuum), $9,056 (Bermudez) and $9,056 (Trinidad); Charles R. Lewis, Ilion, N. Y., $7,900, $8,300 and $8,200; FRED W. BERGER, Newport, N. Y., (awarded contract on Residuum), $7,788, $8,329 and $8,244; John H. Gordon, Albany, $7,964, $8,-305 and $8,220.

✚Road No. 839, Augusta-Knoxboro, Oneida County, 1.21 miles: Kennedy Construction Co., Albany, $15,333; A. C. BROWER, Oriskany Falls (awarded contract), $12,947; Charles R. Lewis, Ilion, $13,400; Daws & Van Sleight, Clinton, $15,954.

✚Road No. 840, Brookfield-Waterville, Oneida County, 4.37 miles: Joseph Walker, New Paltz, $63,108 (Residuum)), $65,817 (Bermudez) and $65,140 (Trinidad); Harry W. Roberts & Co., Utica, $63,450, $67,450 and $66,850; KENNEDY ROOFING & PAVING CO., Utica (awarded contract on Bermudez), $55,270, $57,965 and $57,365; Newport Construction Co., Newport, $62,460, $65,150 and $64,420.

✚Road No. 877, Clinton Village, Oneida County, .97 miles: Conroy & Nixdorf, Oneida, $13,749 (Residuum), $14,354 (Bermudez), $14,203 (Trinidad); Kennedy Construction Co., Albany, $12,487, $12,993, $12,812; JOHN HYDE, Rome, N. Y., (awarded contract on Trinidad), $11,920, $12,586, $12,410; Fred W. Berger, Newport, $12,434, $13,239 and $13,-088; Brown & Lowe Co., Schenectady, $13,-858, $14,463 and $14,312; Daws & Van Sleight,, Clinton, $13,784, $14,446 and $14,-446.

✚Road No. 5,079, Clayville Village, Oneida County, 1.44 miles: Brown & Lowe Co., Schenectady, $18,244 (Residuum), $19,146 (Bermudez) and $18,921 (Trinidad); Daws & Van Sleight, Clinton, $20,187, $20,996 and $20,996; Charles R. Lewis, Ilion, $19,200, $20,600 and $20,400; KENNEDY CONSTRUCTION CO., Albany, (awarded contract on Bermudz), $18,497, $18,973 and $18,846.

✚Road No. 556, Manlius-Chittenango, Onondaga County, 3.22 miles: James Stewart & Co., New York City, $34,200 (Residuum), $36,000 (Bermudez) and $35,900 (Trinidad); Jos. W. McCormick, E. Providence, R. I., $36,932, $39,114 and $38,677; CENTRAL CITY PAVING CO., Syracuse, N. Y., (awarded contract on Residuum), $32,470, $34,216 and $34,434; A. J. Rockwood, Rochester, $34,500, $37,000 and $37,000; John H. Weidman, Syracuse, $32,700, $34,900 and $34,900.

✚Road No. 557, Vesper-South Onondaga, Onondaga County, 6.19 miles: Central City Paving Co., Syracuse, $65,675 (Residuum), $69,035 (Bermudez) and $69,450 (Trinidad); A. J. Rockwood, Rochester, $67,000, $71,000 and $71,000; THOMAS MEEHAN & SONS, Philadelphia, Pa., (awarded contract on Residuum), $65,458, $68,418 and $68,000; James Stewart & Co., New York City, $68,560, $71,-900 and $71,900; John H. Weidman, Syracuse, $67,300, $71,500 and $71,500; Mosier & Summers, Buffalo, $75,000, $78,000 and $77,-000.

✚Road No. 655, Jordan-Cross Lake, Onondaga County, 1.78 miles: Paddock & Williams, Memphis, N. Y., $13,250 (Residuum), $14,000 (Bermudez) and $14,000 (Trinidad); CENTRAL CITY PAVING CO., Syracuse, (awarded contract on Residuum), $12,675, $13,365 and $13,451; James Stewart & Co., New York City, $13,900, $14,600 and $14,500.

Road No. 669, Pompey-Jamesville, Onondaga County, 5.97 miles: Central City Paving Co., Syracuse, $76,000 (Residuum), $78,433 (Bermudez) and $78,839 (Trinidad); Mosier & Summers, Buffalo, $75,000, $79,000 and $78,000; THOMAS MEEHAN & SONS, Philadelphia, Pa., (awarded contract on Residuum) $72,517, $75,966, $75,155; A. J. Rockwood, Rochester, $77,000, $81,000 and $81,000; James Stewart & Co., New York City, $80,-800, $84,050 and $84,000; John H. Weidman, Syracuse, $72,600, $76,600 and $76,600.

✚Road No. 5,080, Elbridge Village-Camillus, Part 1, Onondaga County, 3.02 miles: James Stewart & Co., New York City, $37,-900 (Residuum), $39,700 (Bermudez), $39,-700 (Trinidad); PADDOCK & WILLIAMS, Memphis, N. Y. (awarded contract on Residuum), $33,975, $36,500 and $36,400; Central City Paving Co., Syracuse, $34,523, $36,-385 and $36,618; John H. Weidman, Syracuse, $34,000, $36,300 and $36,300; Charles O. McComb, Syracuse, $35,490, $37,350 and $37,250.

✚Road No. 772, Fulton-Hannibal, Part 1, Oswego County, 3.67 miles: Monroe Roads Co., Pittsford, N. Y., $46,132 (Residuum), $48,405 (Bermudez) and $47,836 (Trinidad); Central City Paving Co., Syracuse, $46,263, $48,536 and $48,820; James Stewart & Co., New York City, $46,450, $48,700 and $48,700; JOSEPH H, CONNERS, Fulton, N. Y., (awarded contract on Residuum), $43,990, $48,000 and $48,000; Cunningham & Woodard, Hudson Falls, $48,554, $50,827 and $50,-259.

✚Fulton-Oswego, Road No. 825, Oswego County, 3.33 miles: James Stewart & Co., New York City, $35,100 (Residuum), $36,680 (Bermudez) and $36,600 (Trinidad); Buckley Construction Co., Plattsburg, $39,850, $41,500 and $41,000; Joseph H. Conners, Fulton, $34,700, $36,500 and $36,500; Cunningham & Woodard Co., Hudson Falls, $37,-964, $39,772 and $39,320; Central City Paving Co., Syracuse, $35,728, $37,562 and $37,-880; MONROE ROADS CO., Pittsford, N. Y., (awarded contract on Residuum), $34,212, $36,020 and $35,568.

✚Road No. 826, Pulaski-Orwell, Oswego County, 5.93 miles: Newport Construction Co., Newport, $62,000 (Re[illegible] $65,200 (Bermudez), $64,400 (Trinid[illegible] J. Rockwood, Rochester, $63,000, $6[illegible] $66,500; Buckley Construction Co., [illegible]urg, $63,-000, $66,000 and $65,000; T[illegible] Grady & Co., Rochester, $60,446, $64[illegible] $63,682; Central City Paving Co., S[illegible] $60,000; $62,223 and $62,325; Greece [illegible]ction Co., Rochester, $58,800, $61,800 a[illegible]000. The Dale Engineering Co., Utica[illegible] $65,830 and $65,830; J. D. Moynehan[illegible] Mohawk, N.Y., $62,156, $65,156 and $63,[illegible]rns Bros. & Haley, Watertown, $59,9[illegible]800 and $64,800; Monroe Roads Co., [illegible]rd, $61,-000, $64,216 and $63,412; Sem[illegible]ros., Watertown, $62,500, $65,800 and [illegible]00; Cunningham & Woodard Co., Hud[illegible]lls, $61,-293, $64,349 and $63,585; FOL[illegible]ENZIES, Buffalo (awarded contract o[illegible]siduum), $56,999, $60,208 and $59,411; [illegible] & Summers, Buffalo, $64,000, $68,0[illegible] $67,000.

✚Road No. 5,082, Mexico-[illegible] Square, Part 2, Oswego County, 2.92 [illegible] James Stewart Co., New York, $39,40[illegible]siduum), $41,200 (Bermudez) and $41[illegible] (Trinidad); Spellman-Oliver Co[illegible]hateaugay, $43,990, $46,247 a[illegible] $46,247; Greece Construction Co., Roch[illegible] N. Y., $39,900, $41,700 and $41,200; M[illegible] & Summers, Buffalo, $42,000, $44,000[illegible] $44,000; CHARLES O. McCOMB, Syracu[illegible]awarded contract on Residuum), $37,990[illegible]700 and $39,700; Hucknall Construction[illegible] Albion, $39,000, $40,800 and $40,350; B[illegible] Bros. & Haley, Watertown, $39,200, $42,[illegible] and $42,-000.

✚Road No. 5,083, Union S[illegible] Pulaski, Part 1, Oswego County, 2.61 mil[illegible] Hucknall Construction Co., Albion, $3[illegible] (Residuum), $32,500 (Bermudez), $32[illegible] (Trinidad); CHARLES O. McCOMB[illegible]racuse, (awarded contract on Residuum[illegible] $30,420, $32,245 and $32,200; James Ste[illegible] & Co., New York City, $31,600, $33,200 a[illegible] $33,100; Spellman-Oliver Co., Chateaug[illegible] $34,979, $37,004 and $37,004; Central City [illegible]ing Co., Syracuse, $31,584, $33,106, $3[illegible] Burns Bros. & Haley, Watertown, $32,[illegible] $34,500 and $34,200; Greece Construction[illegible] Rochester, $30,700, $32,200 and $31,8[illegible] Mosier & Summers, Buffalo, $34,000, $[illegible] and $35,000; J. D. Moynehan & Co[illegible] Mohawk, $33,150, $34,150 and $33,750.

*ALBANY, N. Y.—Bids for the improvement of public highways by State [illegible] were received on March 24 by the State Commission of Highways, Irving J. Morris, Secy., Albany, as follows:

✚Road No. 639, Cheshire-McJenn[illegible] Hill, Ontario County, 7.04 miles; Monroe Road Co., Pittsford, N. Y., $92,729 for Residuum, $96,584 for Bermudez and $95,620 for Trinidad; JAMES STEWART & CO., 30 Church St., New York (awarded contract on Residuum), $88,900, $93,300 and $93,100.

✚Road No. 5081, Lima-East Bloomfield, Part 2, Ontario County, 5.26 miles; James Stewart & Co., $72,880 for Residuum, $76,[illegible] for Bermudez and $76,200 for Trinidad; Greece Construction Co., Rochester, $71,900, $75,0[illegible] and $74,000; JOHN E. JOHNSON, Buffalo, (awarded contract on Residuum), $69,889, $73,155 and $72,339; Thomas Grady & Co., Rochester, $71,450, $78,500 and $77,800; Schroeder-Hicks Construction Co., Buffalo, $74,400, $77,700 and $76,800.

✚Road No. 833, West Exeter-West Winfield, Otsego County, 5.44 miles; THOMAS MEEHAN & SONS, Philadelphia, Pa. (awarded contract), $45,593; Falk & Menzies, Buffalo, $47,000; Daws & Van Sleight, Clinton, $53,000.

✚Road No. 875, Elmdale-Gouverneur, St. Lawrence County, 5.83 miles; Buckley Construction Co., Plattsburg, $58,000; JAMES STEWART & CO., 30 Church St., New York, $57,950 (awarded contract); A. J. Rockwood, Rochester, $65,000; Burns Bros. & Haley, Watertown, $66,000; Semper Bros., Watertown, $67,500; Brown & Lowe, Schenectady, $58,973.

✚Road No. 876, Brasies Corners-Elmdale, St. Lawrence County, 3.82 miles; Buckley Construction Co., Plattsburg, $35,000; Brown & Lowe, Schenectady, $37,684; JAMES STEWART & CO., New York City, $34,350 (awarded contract); A. J. Rockwood, Rochester, $41,396.

✚Road No. 878, Ogdensburg-Morristown, Part 1, St. Lawrence County, 6.74 miles; A. J. ROCKWOOD, Rochester (awarded contract on Residuum), $69,800 for Residuum, $74,000 for Bermudez and $74,000 for Trinidad; Newport Construction Co., Newport, N. Y., $73,-500, $77,700 and $76,900; Burns Bros. & Haley, Watertown, $72,998, $78,190 and $78,-000; Semper Bros., Watertown, $73,000, $77,-200 and $76,150; Brown & Lowe, Schenectady, $69,840, $73,994 and $73,129; Buckley Construction Co., Plattsburg, $76,000, $80,000 and $79,000; E. T. Egleston, Yonkers, $86,-800, $91,400 and $90,300.

✚Road No. 741, Saratoga-Corinth, Saratoga County, 4.06 miles; John S. Kennedy, Port Henry, $40,602 for Residuum, $43,102 for Bermudez and $42,497 for Trinidad; John B. Dower, Ballston Spa, $42,990, $44,620 and $44,100; Thomas Meehan & Sons, Philadelphia, Pa., $44,943. $47,443 and $46,643; HERLIHY CONTRACTING CO., Glens Falls (awarded contract on Residuum), $38,896, $42,000 and $41,500; Peter F. Connelly Co., Boston, Mass., $44,576, $46,770 and $4[illegible],770; Joseph Walker, New Paltz, $50,112, $52,312 and $51,762; Brown & Lowe Co., Schenectady, $44,948, $46,048 and $45,498; S. B. Van Wagonen, Rondout, $39,543, $41,743 and $41,743.

✚Road No. 815, Corinth-Hadley, Saratoga County, 6.22 miles; HERLIHY CONTRACTING CO., Glens Falls (contract conditionally awarded on Bermudez), $65,894 for Residuum, $70,000 for Bermudez and $69,000 for Trinidad; Brown & Lowe, Schenectady, $7[illegible],732, $77,172 and $77,000; Thomas Meehan & Sons, Philadelphia, Pa., $74,285, $79,18[illegible] and $77,085; Santononi Construction Co., Newcomb, N. Y., $73,797, $74,962 and $74,62[illegible]; Joseph Walker, New Paltz, $80,800, $8[illegible],240 and $83,380.

✚Road No. 793, Schenectady-Vischers Ferry, Schenectady County, 2.34 miles; THOMAS F. SHAUGHNESSY CO., Albany, $22,300 (awarded contract); Brown & Lowe Co., Schenectady, $24,822; Dorpian Construction Co., Schenectady, $2[illegible]00; Trumbull & Shoemaker, Schenectady, $24,-680; William Green, Schenectady, $23,[illegible]0.

✚Road No. 880, Schenectady-Duanesburg, Schenectady County, 2.79 miles; THOMAS F. SHA[illegible]NESSY, Albany (awarded contract on Residuum), $24,400 for Residuum, $27,000 for Bermudez and $27,000 for Trinidad; J[illegible] Walker, New Paltz, $28,856, $30,4[illegible] $30,086; Alonzo Schaupp, Albany, $27,3[illegible],900 and $29,400; Dorpian City Constr[illegible] Co., Schenectady, $25,600, $27,200 a[illegible],850; Brown & Lowe Co., Schenectad[illegible],704, $28,344 and $27,934; George M. H[illegible]d, Waterford, $25,470, $26,970 and $27,0[illegible].

✚Ro[illegible] No. 5086, Gallupville-Vrooman, Schoh[illegible] County, 5.02 miles; Brown & Lowe Co., S[illegible]ctady, $69,800 for Residuum, $74,000 [illegible]rmudez and $74,000 for Trinidad; Hall[illegible] Angle, Newburg, $68,500, $71,000 and [illegible]0; Richard Hopkins, Troy, $65,872,[illegible]0 and $69,000; T. H. Gill Co., Boston, [illegible] $73,175, $76,000 and $76,000; Thos [illegible]ker, New Paltz, $64,890, $68,000 and $67,2[illegible] [illegible]erlihy Contracting Co., Glens Falls, $75,[illegible] $80,000 and $79,000; CATSKILL CON[illegible]CTION CO., Catskill (awarded contract [illegible] Bermudez), $60,000, $63,000 and $63,[illegible] Charles Crowley, Troy, $68,103, $71,168 [illegible] $70,410.

✚[illegible] No. 324, Center Road-Fayette Part 1, S[illegible] County, 3.19 miles; SCHROEDER-HIC[illegible] CONTRACTING CO., Rochester (aw[illegible] contract on Residuum), $33,700 for Res[illegible]n, $35,700 for Bermudez and $35,200 [illegible] Trinidad; Central City Paving Co., Syr[illegible] $33,812, $35,788 and $35,788; Wood & [illegible]pkins, Hilton, $34,220, $36,195 and $35,[illegible] James Stewart & Co., New York City [illegible],400, $37,800 and $37,700.

R[illegible] No. 5087, Geneva-Waterloo, Seneca Cou[illegible] 5.95 miles; no bids received.

✚[illegible]d No. 5088, Riverside-Wevertown, Part 2, Warren Co., 1.53 miles; Peter F. Con[illegible]y Co., Boston, Mass., $22,940 for Residuu[illegible] $23,940 for Bermudez and $23,940 for Trin[illegible]d; SANTONONI CONSTRUCTION CO, Newcomb (awarded contract on Residuu[illegible] $22,490, $23,600 and $23,000; Fred E. Ellis, Melrose, Mass., $25,200, $26,000 and $25,[illegible].

✚Road No. 802, Smiths Basin-Hartford, Washington County, 5.25 miles; Joseph Walker, New Paltz, $62,416; Flood & Van Wirt, Hudson Falls, $58,000; Sherrill Hardware & Plumbing Co., Hudson Falls, $53,848; THEODORE A. HAILES, JR., Albany, $50,480 (awarded contract); Thomas H. Karr, Troy, $55,225; Fred. E. Ellis, Melrose, $56,900; Thomas Meehan & Sons, Philadelphia, Pa., $54,958.

✚Road No. 5089, Clyde-Savannah, Part 1, Wayne County, 4.55 miles; Falk & Menzies, Buffalo, $62,261 for Residuum, $65,083 for Bermudez and $64,378 for Trinidad; W. J. Burns Co., Syracuse, $63,727, $66,549 and $65,843; THOMAS GRADY & CO., Rochester (awarded contract on Residuum), $59,850, $63,300 and $62,600; Frederick A. Brotsch, Rochester, $61,500, $65,000 and $64,000; James Stewart & Co., New York City, $60,750, $64,150 and $64,000; Central City Paving Co., Syracuse, $61,556, $64,378 and $64,378.

Road No. 881, Blodgetts Mills-Cortland, Cortland Co., 1.79 miles; Kennedy Construction Co., Albany, $23,973; T. H. Gill Co., Boston, Mass., $23,700; not awarded; exceeds appropriation.

✚Road No. 882, Scott-Spafford, Cortland County, 2.55 miles; JOHN H. WEIDMAN, Syracuse, $24,748 (awarded contract); Daniel L. Mock, Utica, $26,600.

✚Road No. 5075, Cortland City-Clinton Avenue, Cortland County, .53-mile; Kennedy Construction Co., Albany, $7,997 for Residuum, $8,573 for Bermudez and $8,446 for Trinidad; S. P. HULL, Cortland (awarded contract on Bermudez), $7,000, $7,303 and $7,250.

✚ALBANY, N. Y.—We are officially advised that the bids received by Charles E. Treman, Supt. Pub. Wks., on March 23, for the construction of highways adjacent to the Delta reservoir in Oneida County, were: Henry Tosh & Son, Port Byron, N. Y., $46,410; CUNNINGHAM-WOODARD CO., Hudson Falls, N. Y., $43,938 (awarded contract).

BATAVIA, N. Y.—Preliminary plans have been prepared for improving two county highways, as follows: The Indian Falls Road, part two, from the Batavia-Pembroke Highway south to the Corfu Village line, 1.85 miles, estimated cost $18,600; the Pavilion-Batavia Road, from the Wyoming County line northeasterly through the town of Pavilion toward Batavia, 4.7 miles, estimated cost, $48,600.

CORNWALL, N. Y.—The taxpayers have voted to issue bonds for $14,000 to lay concrete sidewalks on both sides of Main St. Drawing up specifications and advertising for bids and the sale of bonds will be done at once. John H. Clarkson is Pres.

LYONS, N. Y.—The Board of Supervisors have adopted plans submitted by State Highway Department for building three roads in Wayne County by state aid this year; the Clyde-Resort Road, 3.87 miles; the Macedon-Cato Four-Corners Road, 1.16 miles; and the Lyons and Sodus Point Road, 3 miles. Total estimated cost, $73,700.

✚NEW YORK, N. Y.—We are officially advised that the contract for furnishing 10,000 cu. yds. of Hudson River road gravel was awarded on March 25, by the Park Board, Clinton H. Smith, Secy., to HENRY STEERS, 17 Battery Pl., New York, at $2.01 per cu. yd. The other bidders were: Robert T. Boyd, 515 Eastern Parkway, Brooklyn, N. Y., $2.24 per cu. yd.; John J. Fleming, 38 Park Row, New York, $2.65 per cu. yd. Noted March 23.

✚We are officially advised that contracts for paving, regulating, widening, etc., several streets in the Boro of Manhattan were awarded on March 21, by the Borough President, C. J. McCoy, Clk., as follows: JACOB [illegible] CONKLIN, 299 Broadway, contract No. 1, [illegible]8,200; HASTINGS PAVEMENT CO., 25 Broad St., contract No. 2, $12,468; ASPHALT CONSTRUCTION CO., Madison Ave. and [illegible]7th St., contract No. 3, $12,731; contract No. 4, $5,620; EDWARD V. HANDY, 2342 [illegible]orris Ave., contract No. 5, $14,061; D. W. MORAN, 562 Burnside Ave., contract No. 6, [illegible]4,780. Noted on March 16.

✚NEW YORK, N. Y.—We are officially advised that contracts for regulating, repaving, grading, etc., various streets, have been awarded as follows: L. J. MORAN, $17,632; LONDINO & GALLO, $4,564; ANITA CONSTRUCTION CO., $4,064.

Bids will be received by George McAneny, Pres. Boro. of Brooklyn, until 11 a. m., April 5, for regulating and repaving with wood block, asphalt, or granite, on a concrete foundation, the roadways of several streets.

Bids will be received by George Cromwell, Pres. Boro. of Richmond, until noon, April 4, for furnishing all the labor and materials required for regulating and repaving with granite block pavement on a concrete foundation, the roadways and gutters of several streets.

Bids will be received by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., April 4, for regulating, grading, curbing, recurbing, flagging, reflagging and repaving with asphalt blocks on a concrete foundation, various streets and avenues in the Borough of Queens.

•NORTH TARRYTOWN, N. Y.—Bids will be received by Edward F. Hennessey, Town Clk. of the town of Mount Pleasant, Cortlandt St., North Tarrytown, until 10 a. m., April 18, for improving portions of two roads, a distance of 3.67 miles.

ROCHESTER, N. Y.—Resolutions have been adopted calling for the construction of 17.72 miles of roads in Steuben County. The roads are: Campbell-Thurston, 2.07 miles; Big Creek Road, section 1 and 2, of Fremont and Hornellsville, 5.98 miles; Big Creek Road, section 4, town of Avoca, 4.13 miles; Atlanta-North Coshocton, 1.64 miles; Troupburg to Pennsylvania State line, 3.9 miles.

✚UTICA, N. Y.—A contract for constructing asphalt pavement has been awarded to the WARNER-QUINLAN ASPHALT CO., at $25,125.

YORKVILLE, N. Y.—The village has voted to pave a strip 1 1-6 miles long and from 35 to 39 ft. wide, connecting the pavement in Whitesboro St., Utica, with that in Main St., Whitesboro. Property owners will pay $7,000 and the village $12,500. Edward M. Coughlin is Pres.

✚JERSEY CITY, N. J.—The contract for improving three sections of the Hudson Boulevard, has been awarded to WILLIAM BAKER, 137 South St., Jersey City, at the following prices: Bayonne, from 38th to 51st Sts., $14,359; Greenville, from the Morris Canal to McAdoo Ave., $18,463, and the Bergen district, from the Newark and New York R. R. to Newark Ave., $47,421. Noted on March 23.

METUCHEN, N. J.—Bids will be received by B. D. Ford, Chn. Street Comn., until April 3 for reconstructing a stone road on Main St., about 4,000 yds.

✚NEWARK, N. J.—We are officially advised that contracts for street paving were awarded, March 23, as follows: Governeur St., to J. F. SHANLEY CO., at $6,656; South 18th St., to the STANDARD BITULITHIC CO., at $67,671; Renner Ave., to the STANDARD BITULITHIC CO., at $22,689.

NEW BRUNSWICK, N. J.—Bids will be received by the Board of Chosen Freeholders, A. W. Bissett, Clk., until April 6, for repairing the Cranbury-South River Turnpike.

PATERSON, N. J.—We are officially advised that grading and the constructing of 39,000 lin. ft. of curb and gutter, to cost $75,000, is contemplated by the city. H. J. Harder is City Engr.

✚PERTH AMBOY, N. J.—We are officially advised that the HASTINGS PAVEMENT CO., 25 Broad St., New York, has been awarded the contract, at $36,632, for improving Fayette St., from State St. to New Brunswick Ave.; King St., from Smith to Market St.; Lewis St., from Water St. to Madison Ave.; and Hobart St., from Smith to Market st.

✚DELAWARE WATER GAP, PA.—We are officially advised that the contract for constructing 2½ miles of macadam road in the Borough of Delaware Water Gap has been awarded to E. P. ARBOGAST, of Stroudsburg, Pa.

NEW CASTLE, DEL.—The Council has voted to issue bonds for $30,000 for contemplated street improvements.

•BALTIMORE, MD.—B. T. Fendall, City Engr., has submitted specifications to the Board of Awards for paving the following streets: With vitrified blocks, O'Donnell, Luzerne and Courtland Sts. and Hargrove Alley; with granite blocks, Fremont Ave., Barre and Lombard Sts.; with sheet asphalt, asphalt blocks, bitulithic or vitrified blocks, Edmonson, Fulton and Carrollton Aves., Mulberry, Oliver, High, Aisquith and Hollins Sts.

SNOW HILL, MD.—The State Roads Commission, Union Trust Bldg., Baltimore, Md., has authorized the advertisement for bids on a road from Monrovia to Newmarket in Frederick County.

•FORT MONROE, VA.—We are officially advised that bids for constructing concrete walks, macadam roads, etc., were received by R. B. McBride, Constr. Q. M., U. S. A., on March 21, as follows: R. H. Richardson, Hampton, Va., concrete walks, 13 cts. per sq. ft.; macadam roads, 98½ cts. per sq. yd.; catch basins, $14.39 each; tile drains, 6-in., laid, 22 cts. per lin. ft. J. H. Brinson, Hampton, on same items, 12½ cts.; 90 cts.; $10; 18 cts.

✚NEWPORT NEWS, VA.—We are officially advised that the contract for constructing concrete curb and gutter on 23d Ave., between Roanoke and Chestnut Aves., was awarded on March 20 to W. R. CARTER, Newport News, at 45 cts. per lin. ft. Noted on March 9.

PORTSMOUTH, VA.—Bids will be received by Bascom Sykes, City Engr., until 8 p. m., March 31, for improving South St., by grading, paving the roadway with vitrified brick on sand foundation, and paving a 16-ft. driveway down the center of the street with Tarvia filled macadam. Specifications and other information can be obtained at 701 Crawford St., Portsmouth, Va.

ATLANTA, GA.—Bids will be received by Courtland S. Winn, Mayor, until 3 p. m., April 3, for paving North Boulevard from Ponce de Leon Ave. to 10th St., with creosoted wooden blocks, an area of 8,250 sq. yds., according to plans and specifications on file with R. M. Clayton, Chief of Construction.

JASPER, FLA.—Bids will be received by the Commissioners of Hamilton County until April 3 for grading 30 miles of county roads.

✚SELMA, ALA.—A contract for constructing 6¾ miles of road in Dallas County has been awarded to R. B. COOK & CO., at $12,000.

SELMA, ALA.—Bids will be received by the Commissioners of Dallas County until noon, April 3, for grading and graveling eleven miles of county road, according to plans and specifications on file with G. R. Thomas, County Engr.

MERIDIAN, MISS.—Bids will be received by C. C. Dunn, Chn. Good Roads Comn., until 2 p. m., April 4, for constructing Causyville, Marion, Poplar Springs and Arundel Springs roads. Plans and specifications are on file with W. P. Moore, City Engr.

COOKEVILLE, TENN.—Bids will be received until April 10, for constructing several roads, estimated to cost $100,000. J. N. Cox is Secy. Putnam County Good Road Comn.

LEXINGTON, KY.—Bids for paving and constructing sidewalks, curbs and gutters on West Third St. have been received as follows: F. T. Justice, cement paving, 16 cts. per sq. ft.; cement curbing, 50 cts. per lin. ft.; cement curbing and guttering, 60 cts. per lin. ft.; Central Construction Co., 15 cts., 60 cts., 50 cts.; C. H. Daugherty, 15 cts., 48 cts., 55 cts.

BARBERTON, OHIO.—Harry Alwin, City Engr., has estimated the cost of improving Third St., from Baird Ave. to the Erie R. R., at $19,280.

BATAVIA, OHIO.—Bids will be received by J. L. Larkin, Audr., Clermont County, until noon, April 3, for constructing the following turnpikes: Fruit Ridge Pike, Washington Township, five sections; Paxton Pike, Miami Township, two sections; Goshen-Belfast Pike, Goshen Township, one section.

BOWLING GREEN, OHIO.—Bids will be received by the Commissioners of Wood County until April 19, for grading and macadamizing the following roads: A. W. Graham stone road in Montgomery Township, ⅞ miles long; George A. Bair, stone road, Montgomery Township, 1⅛ miles long; William Ducat stone road on the line between Milton and Jackson Townships; J. C. Seiller stone road in Troy Township, on the line between Troy and Freedom Townships.

BUCYRUS, OHIO.—Bids will be received by the Board of Trustees of Texas Township, Crawford County, until April 12, for grading and piking with crushed stone two miles of road in that township. M. C. Huddle is Township Clk.

CLEVELAND, OHIO.—Bids will be received by A. B. Lea, Dir. Pub. Ser., until April 3, for furnishing material and repairing stone and cement sidewalks on the streets of the east and west side of Cuyahoga River, during the year.

✚COLUMBUS, OHIO.—Bids were received March 24 by the Commissioners of Butler County and State Highway Commissioner J. C. Wonders, for the macadamizing of Columbia Bridge Road, 2.1 miles, as follows: Horace Shields, Hamilton, Ohio, water bound macadam, $15,999; Carbo-via, $16,565; standard binder "C," $16,329. Wilson Engineer & Construction Co., Xenia, Ohio, $14,200, $18,400, $18,350; Tarvia "X," $18,300. A. Wirtz Transfer Co. & J. H. Truick, Hamilton, Ohio, water bound macadam, $15,632; Bermudez asphalt, $17,500; American asphaltum, $16,980; standard asphalt, $16,980. GARVER CONTRACTING & TRANSFER CO., Hamilton, Ohio (awarded contract on Tarvia "X"), water bound macadam, $14,835; Tarvia "X," $15,085; standard macadam "C," $15,135; Carbo-via, $15,685. Noted on March 23.

LOWELLVILLE, OHIO.—Bids will be received by H. W. Williams, Village Clk., until April 3, for constructing natural and artificial sidewalks during the year.

RICHMOND, OHIO.—We are officially advised that the lowest bid received on March 25 for paving various streets was submitted by the Samuel Monroe & Son Co., Portsmouth, Ohio, at $1.42 per sq. yd. for paving on concrete foundation.

TERRACE PARK, OHIO.—Bids will be received by William E. Williamson, Village Clk., until noon, April 10, for constructing cement or artificial stone sidewalks, one on the south side of Cambridge Ave., and one on the north side of Harvard Ave., between Terrace Pl. and Miami Ave., in accordance with plans and specifications, profiles and estimates on file with the Village Clerk.

UPPER SANDUSKY, OHIO.—Bids will be received by John A. Binan, Clk., Salem Township, until 1 p. m., April 4, for constructing 1¼ miles of pike on the Moody Road; 1¾ miles on the Bill Johnson Road and a short distance on the Salem Center Road.

YOUNGSTOWN, OHIO.—Bids for the improvement of Powers Road, 4,900 ft. long, have been received as follows: W. E. Gartland, $13,824; Martin Connelly & Son, $14,668; Oakley & Ensign, $13,323; Turner & Olson, $13,023; Kennedy Bros., $14,306; Charles Harris, $13,941; L. K. H. Young, $17,270.

The bids received for improving Shady Run Road were: James Colucci, $11,172; D. J. Shennak, $9,872; F. L. Geiger, $11,629; G. A. Galdini & Co., $10,477; Oakley & Ensign, $10,691; Edward Kane, $11,027; McKee & Co., $10,064.

INDIANAPOLIS, IND.—Bids will be received by the Board of Public Works until 10 a. m., April 5, for grading and paving the sidewalks of portions of 22d and South Sts.; for improvement of Meridian St. from Maryland to Georgia St. by paving the roadways with wooden block, asphalt, bituminous concrete or brick laid on gravel concrete foundation, and for the construction of sewers in Montcalm St., and in the first alley north of 37th St., and a local sewer in 33d St. from Central Ave to Pennsylvania St.

LAFAYETTE, IND.—Bids will be received until 10 a. m., April 6, by the Commissioners of Tippecanoe County, at Lafayette, for the construction of three gravel roads. Geo. W. Baxter is County Audr.

LOGANSPORT, IND.—Bids will be received until 10 a. m., April 6, by the Commissioners of Cass County, at Logansport, for the construction of a macadamized road in Noble Township. John E. Wallace is County Audr.

MARION, IND.—Bids will be received until 2 p. m., April 4, by the Commissioners of Grant County, at Marion, for the construction of a macadam road in Franklin, Pleasant and Center Townships. A. Y. Stout is County Audr.

✚ORLEANS, IND.—The Commissioners of Orange County have awarded a contract for the construction of a gravel road in Paoli Township to EDWARD JOHNSON, Orleans, at $6,350.

✚PAOLI, IND.—We are officially advised that the contract for constructing a gravel road in Paoli Township has been awarded to ELWOOD JOHNSON, Orleans, Ind. Noted on March 2.

RUSHVILLE, IND.—Bids will be received until 2 p. m., April 15, by the Commissioners of Rush County at Rushville, for the construction of a gravel road in Posey Township, a gravel road on the line between Ripley and Center Townships, and a macadamized road in Anderson Township. J. M. Stone is County Audr.

SULLIVAN, IND.—Bids will be received by B. C. Crowder, County Audr., until April 4 for the construction of three roads in Sullivan County.

VINCENNES, IND.—Bids will be received by C. L. V. Tucker, Clk. Bd. Pub. Wks., until 2 p. m., April 4, for the improvement of Upper Eleventh St., from Hart to Hickman St., by curbing the sidewalks on both sides with stone and by paving them with artificial stone pavements.

✚SAULT SAINTE MARIE, MICH.—The contract for the construction of sidewalks during 1911 has been awarded to CURRAN & CLEMENT, at $27,995. The other bidders were: W. F. Grant, $33,320; H. A. Weston of the Maple Leaf Paving Co., $31,461; David Jannison, $31,500.

DETROIT, MICH.—Bids will soon be asked for paving Lawrence Ave., from Second Ave. to Hamilton Boulevard, 26 ft. wide, with cedar blocks on concrete foundation, with Medina, Berea or other approved curbing. Estimated cost with Berea curbing, $11,776, with Medina curbing, $12,288. James J. Haarer is Comr. Pub. Wks.

ESCANABA, MICH.—Bids will be received until April 4, for constructing concrete pavement, combined curb and gutter and storm water sewer, to cost $16,000. M. J. Lyons is City Clk., and D. A. Brotherton, City Engr.

✚NEENAH, WIS.—The Board of Public Works has awarded the contract for paving South Commercial St. with tar macadam, to CHRISTIAN JOHNSON, Oshkosh, Wis., at $13,575.

DAVENPORT, IOWA.—Bids will be received by A. M. Compton, Chn. Bd. Pub. Wks., until 2 p. m., April 4, for excavating, redressing and resetting curb and repaving various streets.

HAMPTON, IOWA.—Bids will be received by W. H. Lackey, City Clk., until April 5 for paving four blocks of streets with brick and three alleys with cement.

INDIANOLA, IOWA.—Bids will be received by W. A. Graves, City Clk., until April 3, for constructing Portland cement and concrete sidewalks, street and alley crossings, driveways and waterways during the year.

HALLOCK, MINN.—Bids will be received by C. J. Hemmingson, County Audr., until 1 p. m., April 3, for 52,050 cu. yds. of grading, and for constructing eleven 20-in. by 24-ft., and eight 30-in. by 24-ft. concrete culverts.

ST. PAUL, MINN.—Bids will be received by Geo. J. Ries, County Audr., until April 3, for grading, graveling, macadamizing and otherwise improving three roads.

CHANUTE, KAN.—Bids will be received by W. F. Sams, City Clk., until April 1 for paving with brick South Highland Ave., with macadam North Evergreen St., and with brick South Grant St., at an estimated cost of $12,000.

✚TOPEKA, KAN.—The contract for laying 17 blocks of vitrified brick pavement has been awarded to J. R. RAMSEY, Topeka, at $60,806.

FARGO, N. DAK.—Bids will be received by E. R. Orchard, City Audr., until April 3, for constructing sidewalks during the year. Bids will be received on tile, cement, concrete, and tar concrete.

LANGDON, N. DAK.—Bids will be received by John Sheehan, City Audr., until April 3, for constructing sidewalks, crossings and curbs during the year.

✚WEBB CITY, MO.—We are officially advised that the contract for paving with asphalt macadam, curbing and guttering with cement, and constructing cement sidewalks on Madison St., for the distance of one-half mile, has been awarded to the WILL F. PLUMMER CO., Springfield, Mo., at 79½ cts. per sq. yd. for asphalt macadam, and 61 cts. per lin. ft. for curb and gutter. The Webb City Paving & Improvement Co. bid 80 cts.

for paving and 64 cts. for curb and gutter. The work was estimated at $13,200. Noted on March 9.

✚DALLAS, TEX.—The contract for paving Live Oak St. has been awarded to the TEXAS BITULITHIC CO., at $60,027, the item price being $2.30 per sq. yd.

*GREENVILLE, TEX.—Bids will be received by W. A. Frazer, City Clk., until 3 p. m., April 11, for 148,000 sq. yds. of paving and 81,000 lin. ft. of concrete curb. Bids will be received on bitulithic, vitrified brick, creosoted wood blocks, Hassam concrete, vibrolithic, sheet asphalt and asphaltic concrete. Specifications can be seen at the office of J. H. Rush, City Engr., or E. L. Dalton, Consult. Engr., Dallas, Tex. Bidders wanting specifications sent out of city must send check for $3 to cover cost.

✚OAK CLIFF (Dallas post office), TEX.—The contract for paving Jefferson St. from Tenth to Tyler Sts. has been awarded to the STANDARD ENGINEERING & CONSTRUCTION CO., Dallas, at $74,825. The only other bid received was submitted by John C. Underwood, at $79,405.

✚OKLAHOMA CITY, OKLA.—Contracts for paving the city streets have been awarded as follows: To the CLEVELAND TRINIDAD ASPHALT CO. at $147,185; of paving to the WESTERN PAVING CO., at $351,819.

WAITSBURG, WASH.—Bids will be received by the city until noon, April 5, for paving, guttering and curbing Main St.

BAKER CITY, ORE.—The City Commissioners are considering a plan to macadamize and otherwise improve all roads entering Baker City, at an estimated cost of $26,550. A. Finley is Supt. Paving, and J. W. Bailey is City Engr.

PORTLAND, ORE.—Extensive paving and general street improvements, it is reported, are contemplated by the city at an estimated cost of $2,500,000. J. W. Morris is City Engr.

CONCORD, CAL.—The sum of $10,000 has been subscribed for the proposed Mount Diablo Toll Road, the cost of which is estimated at $50,000. George Whitman is interested.

LONG BEACH, CAL.—Bids will be received by C. C. Boynton, Secy. Bd. Pub. Wks., until 10 a. m., April 15, for constructing a combined bulkhead and sidewalk with parapet of reinforced cement concrete between Seaside Boulevard, to parallel line 30 ft. distant, and from Chestnut Pl. to Block 15, Seaside Park.

✚PASADENA, CAL.—The City Council has awarded a contract to JAMES M. MONTGOMERY, South Pasadena, Cal., for improving South El Molino Ave., from Colorado to California St., at 9.4 cts. per sq. ft. for rock and oil paving; 25 cts. per lin. ft. for 14-in. cement curb; 32.5 cts. per lin. ft. for 18-in. cement curb; 12.5 cts. per sq. ft. for cement gutter. Total bid, $27,313.

✚REDONDO, CAL.—Contracts for paving have been awarded as follows: To VENABLE & MORRELL, Redondo, for improving Emerald St., at $19,000. The street will be paved with petrolithic paving, cement curbs and gutters. To W. C. HENDERSON, 3030 North Main St., Los Angeles, Cal., for improving Guadaloupe St. by petrolithic paving, cement curbs and gutters, at $26,100.

BRAMPTON, ONT.—Bids will be received by W. C. Young, Town Clk., until 6 p. m., April 17, for the construction of approximately 8,000 sq. yds. of pavement and 3,500 lin. ft. of concrete curb and gutter. Plans and specifications are on file with W. M. Treadgold, Town Engr.

✚CALGARY, ALTA.—The contract has been awarded to F. FARENBACK by the city for sidewalk construction at 16 cts. per lin. ft. for curb and gutter, and 9¾ cts. per sq. ft. for concrete pavement.

MANUFACTURING PLANTS.

(✚ *Denotes a contract awarded.*)

NORTH MONMOUTH, ME.—J. H. McIlroy, Sons & Co., blanket manufacturers, of North Monmouth, are contemplating the erection of a mill of brick construction, 200 × 75 ft.

GREENDALE (Worcester post office), MASS.—The Norton Co. is to build a 4-story addition to its plant at Greendale, which is to be used for the general manufacturing purposes of the concern. The building will be 24 × 40 ft., of brick and steel, with a tar and gravel roof. Construction is to be started immediately.

SPRINGFIELD, MASS.—Plans are about completed by J. William Donahue, Arch., for a laundry building and central heating plant for the House of Mercy Hospital on Carew St. The building will be of brick with limestone trim, 48 × 52 ft. and three stories high. Three new tubular boilers and a coal bunker to hold 400 tons of coal will be required.

✚SPRINGFIELD, MASS.—The contract for the erection of an addition to the mill of the Farr Alpaca Co., on Bigelow St., was awarded recently to A. D. McCORMICK. The mill will be two stories in height, of similar construction to the other mills of the company, and will probably cost in the neighborhood of $150,000. When completed it will add largely to the present output of the concern.

✚WORCESTER, MASS.—The E. J. CROSS CO., Inc., 82 Foster St., has been awarded the contract for the erection of the foundry building of the L. W. Pond Machine & Foundry Co., on Gold St. The structure will be 66 × 261 ft. one story high, of brick and steel with slate roof. Noted on March 2.

WORCESTER, MASS.—Estimates are now being received from plans of Arthur T. Gray, Engr. Exchange Bldg., Boston, for an addition to the factory of the Worcester Corset Co., on Grand St. The building will be of brick and granite, 55 × 165 ft., five stories high, with steam heat and several freight elevators.

✚WORCESTER, MASS.—The contract for the construction of the mill of the Wachusett Thread Co., to be built between South Cambridge and Holmes Sts., has been awarded to E. K. WATSON, 75 Westminster St., Providence, R. I. The plans provide for a building with three wings, one 156 × 53 ft., one 108 × 53 ft. and one 55 × 53 ft., all four stories high, of brick, mill construction with reinforced concrete stairs, freight elevators, automatic sprinklers and steam heat. Noted on Jan 19.

BROOKLYN, N. Y.—The Sefton Mfg. Co., with factories at Anderson, Ind., and Chicago, Ill., plans to establish its Eastern plant in Brooklyn, it is reported. William J. Sharp will have charge of the plant.

LYONS, N. Y.—The Hemmingway Canning Co. has purchased the plant of the Lyons Beet Sugar Refining Co. and plans to convert it into a canning factory, it is announced.

UTICA, N. Y.—The Ontario Button Co. will, it is reported, move from Amsterdam to Utica and establish a plant at Catherine and Third Sts. The officers are: Charles A. Byington, Pres.; W. J. Frisbie, Vice-Pres.; George A. Frisbie, Treas.; E. G. Dennison, Secy. and Mgr.

PATERSON, N. J.—The Milan Silk Co. has been incorporated by Flavio Canova, Gildo Canova and others. The capital stock is $50,000. Business will be started at 533 East 18th St., but the erection of a plant is being considered. The manufacture of silk and all kinds of textile fabrics will be carried on by the concern.

ALTOONA, PA.—W. H. and L. C. Wolfe are about to expand their business by the establishment of a bicycle factory, the machine to be manufactured to be known as the "Wolfe American."

✚ERIE, PA.—The PITTSBURG BRIDGE & IRON CO., of Rochester, has received a contract for the addition to the Erie plant of the Hammermill Paper Co., which will require about 1,500 tons of structural steel.

ETNA (Allegheny post office), PA.—Spang, Chalfant & Co., Inc., has broken ground for the erection of a mammoth machine shop and office building in Etna, adjoining its other mills in Bridge St. The buildings, when completed, will cost approximately $200,000. Work in tearing down 20 company houses to make room for the new buildings has already been begun, and it is expected that the ground will soon be cleared and ready for actual building operation. The new machine shop will take up an entire block along Bridge St. The new office will be built near the machine shop, close to the boundary line of the borough. When completed, the new annex to the group of mills will give employment to several hundred additional men. The mills ordinarily employ about 2,300 men. When running in full, with the addition of the new machine shop, it is estimated that the plant will employ about 3,000. The company's chief output is pipes. It is expected that the new buildings will be completed early in the fall.

HOMER CITY, PA.—The Prairie State Incubator Co. has outgrown its present plant and will erect a larger one in the spring. J. L. Nix is the owner.

MARCUS HOOK, PA.—Official advices are to the effect that W. W. Lindsay & Co., Harrison Bldg., Philadelphia, have completed the plans for and will construct the proposed plant at Marcus Hook, which will consist of a storehouse for contractors' equipment, 90 × 100 ft., 30 ft. high. It will be of structural steel, with brick walls and a slag roof. Noted last week under "Linwood, Pa."

✚PHILADELPHIA, PA.—CAREY & REED have been awarded the contract to rebuild the plant of the Penn Laundry Co., at 313 to 319 North 32d St.

Plans have been finished by the William Steele & Sons Co., 1600 Arch St., for a $250,000 plant at Tenth and Sedgley Sts., for the Hohlfeld Mfg. Co. The plant will include a main building, three stories, 62 × 249 ft.; a 1-story power plant, 24 × 104 ft., and a 3-story storage building, 21 × 116 ft., all of reinforced concrete and brick.

The H. E. Grau Co., 1707 Sansom St., John R. Wiggins & Co., Heed Bldg., and A. Raymond Raff, 1635 Thompson St., are estimating on the 5-story brick and concrete factory, 47 × 120 ft., to be built at the southwest corner of Twelfth and St. James St., for F. X. Zirnkilton.

S. S. Fretz is at the head of a syndicate which has purchased a plot of ground at 22d and Sedgeley Sts. for the purpose of erecting a group of buildings for an umbrella manufacturing plant. Estimated cost, $250,000.

BALTIMORE, MD.—Plans are being prepared to rebuild the meat-packing plant on Taylor St., near Homewood Ave., which was partially destroyed by fire recently, entailing a loss of $50,000. Christopher F. Kurrle is the owner.

Tentative drawings are now being prepared by J. E. Laferty, Arch., 11 East Pleasant St., for the construction of an ice plant for the Knickerbocker Ice Co. It is to be of brick and stone, of concrete foundation, with a slag roof. Edward C. Carrington, Jr., Vice-Pres. of the company, said, recently, that in all probability the present structure at York and William Sts. will be torn down and a new 2 or 3-story building, to cost $30,000, will be built. The proposed building will be fireproof, with concrete and sheet-metal floorings, it is reported.

To replace the buildings recently destroyed by fire at the Union Abattoir, the D. H. Martin Co. will shortly award a contract for the erection of three factory structures, to cost in the neighborhood of $25,000. They are to be of brick and fireproof construction, with concrete floors and foundations, and will be equipped with all of the latest machinery and appliances for the manufacture of fertilizer.

✚G. E. WARFIELD has been awarded the contract to build a factory and stable for the H. P. Pumphrey Co., manufacturers of lard and compounds, at Vine and Monroe Sts. F. E. Beall, Arch., 218 St. Paul St., prepared the plans. The factory will be two stories high, of brick, 32 × 40 ft.

✚BALTIMORE, MD.—William Suchting & Sons, 604 Portland St., have awarded the contract to F. C. CARSTENS, 310 North Carrollton Ave., Baltimore, for the erection of an addition to their manufacturing plant. It will be three stories high and 46 × 131 ft.

COLORA, MD.—Strausbaugh & Silver, of Elkton, Md., will erect a 2-sty cannery for sugar-corn.

WAYNESBORO, VA.—The Waynesboro Co-operative Creamery Co has been incorporated with $10,000 capital stock with the following officers: J. W. Paul, of Staunton, Pres.; W. F. Gilkeson, of Fisherville, Va., Vice-Pres.; Fred Driver, of Waynesboro, Secy. It is the intention of the company to build a creamery.

✚WEIRTON, W. VA.—The GUY JOHNSON CONTRACTING CO., of Toronto, has closed a contract with the Phelps Can Co., of Baltimore, Md., for the erection of buildings for a canning factory to be located between Holliday's Cove and Weirton. The first of five buildings to be erected will be a brick structure, 150 × 160 ft., modern throughout, with a skylight roof. It will cost $15,000. It now has an output of 10,000 cans daily.

CHARLOTTE, N. C.—The Durham Hosiery Mills No. 1, Durham, are planning to erect a 115 × 120 ft. building for finishing machinery and offices. Plans and specifications have been prepared. This company is a $500,000 enterprise, operating mills at Durham, Goldsboro, High Point and Chapel Hill. Its Durham plant has 5,000 ring spindles, 11,000 mule spindles, 100 ribbers, 1,200 loopers, 30 sewing machines, dyeing and finishing machinery, etc. Electric power is used and 1,000 persons are employed.

BARNWELL, S. C.—The Barnwell Lumber Co., recently reported incorporated with $60,000 capital stock by R. T. Yates, of Lynchburg, Va., and others, will erect a band mill with a daily capacity of 5,000 ft. of lumber. Albert Towe, of Charlotte, Mich., will be Active Manager. This is a branch organization of the Virginia Carolina Lumber Co., of Lynchburg.

✚JACKSONVILLE, FLA.—The contract to erect a plant here for the National Biscuit Co. has been awarded to H. T. HADLOW, of Jacksonville, it is reported.

✚ADELINE, LA.—Plans have been completed for a central refinery on the Adeline Plantation for the Oxnard & Sprague Co. by the Honolulu Iron Works, of Honolulu, Hawaii, and the contract to erect the mill and crusher has been awarded to E. A. SAMMONS & CO., of New Orleans. It includes a 12-roller mill and crusher to cost $103,000. The equipment will be furnished by the FULTON IRON WORKS, of St. Louis. The buildings for the refinery will cost approximately $60,000, which contract has been let to the VIRGINIA BRIDGE & IRON CO., of Roanoke. The WALBURN-SWENSON CO. has the contract for the evaporators at a cost of $20,000. Bids have been opened but contracts not yet awarded for the centrifugal machines, to cost about $13,000, and the boilers, which will cost something over $20,000. The project will represent an expenditure of about $500,000, it is reported.

EUNICE, LA.—Articles of incorporation have been filed by the Eunice Rice Mill Co. with a capital stock of $60,000. It is the purpose of the company to erect a rice mill with a 1,200-bbl. capacity. The officers are: Jacques Troutman, Pres.; E. E. Paramore and James J. Lewis, Vice-Presidents; W. H. Hunter, Jr., Secy.-Treas.

MORGAN CITY, LA.—H. A. Waddell and associates will install a box factory and saw mill near here, at a cost of about $300,000.

CINCINNATI, OHIO.—According to reports the Charles Boldt Glass Co. plans to double the size of its plant on Davis Lane, at a cost of $200,000.

✚CLEVELAND, OHIO.—The Great Lakes Engineering Co., foot of Rivard St., Detroit, Mich., has awarded the general contract for the ice plant, boiler and engine room for the Colonial Ice Co., 2229 Woodhill Road, S. E., Cleveland, to W. J. THOMPSON & SON, 6110 Euclid Ave., Cleveland. Cost, $25,000.

DAYTON, OHIO.—The Dayton Art Glass Mfg. Co., of Dayton, will erect another factory building. The new structure will treble the present floor space and will necessitate an increase in the force of employees.

RAVENNA, OHIO.—The Browning Foundry Co., of Ravenna, incorporated at $150,000, will erect an open-hearth steel plant on ground adjoining its present plant, work on which will be commenced by May 1. A power-house, fireproof pattern-house and other buildings also will be added to the plant. Employment will be given to 150 more skilled workmen. Earl Browning is one of the officers.

TOLEDO, OHIO.—The Acklin Stamping Co. has been incorporated by Graff M. Acklin, who will be President. A lot on Dorr St., 110 × 150 ft., has been purchased for the purpose of erecting a factory. Plans are now in course of preparation. James M. and Collord Acklin will have charge of the business, it is stated. The capital stock is $50,000.

✚TOLEDO, OHIO.—Plans have been completed by George S. Mills, Arch., for the erection of a plant which will double the present output of the Ohio Electric Co. The capital stock has been increased from $150,000 to $250,000 for this purpose. The site, located at Bancroft St. west of the Lake Shore road, has 400 ft. frontage on Bancroft St. and is 1,400 ft. deep. The factory will be 240 × 60 ft. and three stories high. There will be wings 40 × 60 ft. each. The building will be of standard mill construction with iron girders and fenestra sash. It will be equipped with a standard automatic sprinkler system, insuring the best of fire-fighting facilities. The floor space will be about 50,000 sq. ft. All the machinery will be new. Each machine will be electrically driven by an individual motor. The contract for construction work has been awarded to A. BENTLEY & [Sons Co.,] Huron St., and will be st[arted at once]. Cost, $100,000.

✚PORTLAND, IND.—JOHN ... of Decatur, Ind., has been a[warded the con]tract by J. A. Long, for the co[nstruction of a] 4-story fireproof packing house, dwelling and brick barn, all fire-proof construction. The ... will have several elevators and modern equipment.

RUSHVILLE, IND.—Arbuck[le ...] recently incorporated, with a ca[pital stock of $...]000, will build and equip a machine shop in this city. ... is Pres.

BAY CITY, MICH.—The Mich[igan ...] tine Co., of this city, has incre[ased its cap]ital stock from $120,000 to $500,000, [and will] practically triple the size of its [plant, it is] reported.

DETROIT, MICH.—The Scott [Elec]trical Co., 3 Farrar St., has pu[rchased land] at 84 and 86 Grand River A[ve., and an]nounce that they will immedia[tely erect a] 3-story and basement plant on ...

EAU CLAIRE, WIS.—See item ... Heat and Power.

GRAFTON, WIS.—The Junge[r Stove &] Range Co., recently incorporated, [will erect] a factory for the manufacture of ranges to cost approximately $... first unit will be a 2-story factory 140 × 48 ft., of brick and steel ... power plant will be added.

MINNEAPOLIS, MINN.—A candy [factory, one] half of which will be in St. Paul [and the] other in Minneapolis, is contempl[ated by] George Smith, a candy manufactu[rer of St.] Paul. A site has been purcha[sed. The] frontage of the property on Unive[rsity Ave.] shows 200 ft. in Minneapolis and [... ft. in] St. Paul, a total frontage of 3.6 ... depth through the center of the tra[ct, on the] dividing line, is 458 ft. The irreg[ularity of] the measurements is shown by the [fact that] the property has 481 ft. on the ... 442 ft. on the west side, on Bedfo[rd Ave.] and 512 ft. on the east side. The [building] will be of steel and concrete and [probably] of "mushroom" construction. [Estimated] cost, $200,000.

✚ST. PAUL, MINN.—The general [contract] for the construction of an addition [to the] factory of the Luger Furniture Co. [has been] awarded to J. W. BUTLER & B[ro., 608] Baltimore Block. E. C. Haley, P[lymouth] Bldg., is Arch. Cost, $22,000.

Bids will soon be received by M... Consult. Engr., Capital Bank Bldg., [for the] construction of a plant in the Midw[ay Dis]trict for the Northwestern Hauge ... which F. Y. Locke is Pres. Power [will be] supplied by gasoline engines throughout the plant. Cost, $50,000.

ST. LOUIS, MO.—We are officially [advised] that bids will be received in about [60 days] by the McKinney Traction Cultivator Co., La Salle Bldg., St. Louis, for the construction of a motor cultivator plant, 1,100 × ... ft. There will be two fireproof buildings of steel and concrete and two stories high. The estimated cost of the structures is $... and equipment, $25,000. W. E. McKinney is Pres. Noted last week.

HOUSTON, TEX.—The United Steel & Iron Co. plans to erect a plant on a 20-acre site recently purchased, to include a main building, 60 × 200 ft., frame, with a steel shed and two 25-ft. additions for boiler and engine. Machinery has been purchased. It will have a capacity of 80 tons daily. I. N. Willard, of Utica, N. Y., is Pres., and N. L. Mills, of Houston, Dir. The capital stock is $150,000.

DENVER, COLO.—A plant to manufacture car brasses, babbit, solder, type and bell metal is contemplated here by J. E. Richards, of Denver. Between $90,000 and $100,000 has been raised toward this project. The Industrial Development Committee of the Chamber of Commerce is, it is reported, assisting Mr. Richards in locating a site. Estimated cost, $200,000.

DENVER, COLO.—The Call Switch & Frog Co. has been organized for the purpose of establishing a plant on West Eighth Ave., it is announced. R. A. Call is Pres.

ROSWELL, N. MEX.—The American Roller Mill Co., of Middletown, Ohio, plans to erect a plant here to manufacture ingot products, it is reported. L. I. Hand is one of the officers.

WILLIAMS, ARIZ.—The Maier Brewing Co., of Los Angeles, Cal., plans to erect a brewery here, according to reports.

SEATTLE, WASH.—According to press reports the Berlin Machine Works, of Beloit, Wis., contemplates erecting a branch factory in Seattle, to cost $500,000. B. F. Yates is Pres. C. G. Hayward, Mgr. of the Industrial Bureau of the Seattle Chamber of Commerce, and R. W. Raymond, Mgr. of the Industrial Bureau of the Portland Commercial Club, are interested in the project.

LEMOORE, CAL.—A butter-making plant is to be added to the plant of the Lemoore Cream & Butter Co., it is reported. John W. Sage is Mgr.

LOS ANGELES, CAL.—Frank L. ..., Arch., Grosse Bldg., has prepared plans for a 3-story brick factory building, 68 × 72 ft., to be erected on Washington St., for the Burroughs-White Trunk Co.

PORTERSVILLE, CAL.—The Dollenwood Lumber Mills Co. plans to erect a planing mill, it is reported. W. F. Berry is interested.

✚SAN FRANCISCO, CAL.—W. H. BAGGE & SON, 2101 Hayes St., has secured [con]tract for erecting a 2-story brick factory building for Edward Rolkins, Hotel Ar... aut on Minna St. Cost, $13,500.

✚FORT WILLIAM, ONT.—The BARNETT-McQUEEN CO., of Chicago, Ill., has received the contract for building an addition to the plant of the Imperial Oil Co. It will have a capacity of 1,500,000 gallons.

(Continued on page 154.)

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close		Noted in issue of
4-1	[illegible] plant extensions, Portsmouth, N. H. (S.)	3-9
4-1	[illegible] road, etc., Newport, [illegible] (S)	3-16
4-3*	[illegible] paving, Port Jervis, N. [illegible] (S.)	3-23
4-7	[illegible] etc., Atlanta, Ga. (S.)	3-9
4-11	[illegible] Saskatoon, Sask. (P. & S.)	3-16
4-15*	[illegible] etc., North Yakima, Wash. (S.)	3-2
4-20*	[illegible] system, Helena, Mont. (S.)	3-16
4-2[illegible]	[illegible] kiln, Norfolk, Va. (S.)	3-23
4-2[illegible]	[illegible] etc., Hawaii (S.)	3-30

Light, Heat and Power Plants.

Bids close		Noted in issue of
3-31	Engines and generators, Kansas City, Mo.	3-23
3-31	Generator, Minneapolis, Minn.	3-30
4-1	Power house equipment, Portsmouth, N. H.	3-9
4-3	Generators, Los Angeles, Cal.	3-16
4-3	Gas and electric light fixtures, Mount Vernon, N. Y.	3-30
4-3	Heating appliances, New York	3-30
4-3	Gas and electric fixtures, Hoboken, N. J.	3-30
4-4	Street lighting, Cincinnati, Ohio	3-30
4-4	Light standards, also wiring, Eveleth, Minn.	3-30
4-4	Electric light fixtures, West Union, Ohio	3-30
4-4	Generators, switchboard and arc lamps, Jackson, Tenn.	3-30
4-4	Electric light plant and machinery, Newton, Miss.	3-30
4-4	Ventilating, electric wiring and conduits, Rugby, N. Dak.	3-9
4-4*	Subway, Auburn, N. Y.	3-23
4-5	Heating and electric work, Central Islip, N. Y.	3-23
4-10	Electric lighting system, Omaha, Neb.	3-23
4-19	Generators, etc., Australia (Foreign)	3-2
4-20*	Power-house equipments and conduits, Albany, N. Y.	3-23
5-1	Lighting standards, Winnipeg, Man.	3-23
Indef.*	Electric power, Brookville, Ohio	3-9

Bridges.

Bids close		Noted in issue of
3-30	Substructure, Macon, Ga.	3-30
4-1	Bridges, London, Ont.	3-30
4-1	Bridges, Hartselle, Ala.	3-30
4-1	Arch, Fredonia, N. Y.	3-9
4-3	Bridges, Idagrove, Iowa	2-23
4-3	Bridge repairing, Allentown, Pa.	3-16
4-3	Superstructures, Delaware, Ohio	3-16
4-3	Bridge, Monticello, Miss.	3-23
4-3	Culverts, Lisbon, N. Dak.	3-23
4-3	Bridges, Brantford, Ont.	3-30
4-4	Bridge, Prosser, Wash.	3-30
4-4	Bridges, Cando, N. Dak.	3-23
4-4	Bridge, Hill City, Kan.	3-23
4-4*	Bridge, Cape May C. H., N. J.	3-23
4-4	Bridges, Lagrange, Ind.	3-23
4-4	Bridge, Brazil, Ind.	3-23
4-4	Bridge, Auburn, Cal.	3-23
4-4*	Bridges, Reading, Pa.	3-23
4-5	Bridges, Rockport, Ind.	3-23
4-5	Bridge, Kingston, Ont.	3-23
4-5	Bridges, Shelbyville, Ind.	3-23
4-5	Bridge work, Columbus, Ohio	3-16
4-5	Bridge work, Cleveland, Ohio	3-9
4-5	Bridge repair, Jersey City, N. J.	3-30
4-5	Bridge, Rainier, Ore.	3-30
4-6	Bridge, Richmond, Va.	3-30
4-6	Bridge, New York, N. Y.	3-30
4-6	Bridge, Germantown, Ohio	3-23
4-7	Bridges, Owen Sound, Ont.	3-30
4-7	Bridge, Pittsburg, Pa.	3-30
4-8	Bridges, Vincennes, Ind.	3-23
4-8	Bridge, Mackay, Idaho	3-16
4-8	Bridges, Vincennes, Ind.	3-30
4-11	Culvert, Clinton, Iowa	3-23
4-12	Bridge work, Xenia, Ohio	3-16
4-12	Bridge work, Newark, Ohio	3-30
4-14	Bridge, Chambersburg, Pa.	3-30
4-14	Bridge, Decatur, Ind.	3-16
4-15	Bridge, Minnitonas, Man.	3-2
4-15	Bridge, Swan River, Man.	3-2
4-15*	Bridge work, Kenosha, Wis.	3-16
4-15	Bridge, Moscow, Idaho	3-30
4-17	Bridges, Las Vegas, N. Mex.	3-30
4-18	Bridge, Camden, Ark.	3-30
4-18*	Bridge, Easton, Pa. S.	3-30
4-20	Bridge, Batavia, Ill.	3-30
4-25	Bridges, East St. Louis, Ill.	3-30

Buildings.

Bids close		Noted in issue of
3-30	Jail, Washington, Ga.	3-30
3-31	School, Washington C. H., Ohio	3-30
3-31	Chemical bldg., Agriculture College, Miss.	3-30
3-31	U. S. post-office, Ionia, Mich.	3-2
3-31	School, Southington, Conn.	3-16
4-1	Wiring, etc., in hospital, Jackson, Miss.	3-9
4-1	Club-house, Toronto, Ont.	3-30
4-1	Marine barracks, Bremerton, Wash.	3-30
4-1	High school, Omaha, Neb.	3-30
4-3	School, Rochester, N. Y.	3-30
4-3	Hospital, Havre, Mont.	3-30
4-3	School, Ashland, Ohio	3-16
4-3	Buildings, Cleveland, Ohio	3-16
4-3	Armory, Portage la Prairie, Man.	3-23
4-4	Remodeling court-house, Paoli, Ind.	3-23
4-4	Armory, Levis, B. C.	3-23
4-4	Church, Lansing, Mich.	3-9
4-4	Two schools, Pontiac, Mich.	3-30
4-5	Stable, New York, N. Y.	3-30
4-5	School, Paterson, N. J.	3-30
4-5	Theatre, Clarksburg, W. Va.	3-30
4-5	School, Niles, Ohio	3-30
4-5	Y. M. C. A. bldg., Moline, Ill.	3-30
4-5*	Hospital, Fort Monroe, Va.	3-9
4-6	School, Rosewood, Ohio	3-16
4-6	School, Rosewood, Ohio	3-23
4-7	Court house, Highmore, S. Dak.	3-30
4-10	Improvement to court house, Talladega, Ala.	3-30
4-10	Improvement to post office, Portsmouth, N. H.	3-30
4-10	Boiler shop, etc., Winnipeg, Man. (Mfg. Pl.)	3-30
4-10	Detention house, Norristown, Pa.	3-30
4-10	Post office, Mt. Sterling, Ky.	3-9
4-10*	U. S. post office, Connellsville, Pa.	3-2
4-10	Public hall, Port Clinton, Ohio	3-23
4-11	Schools, Schafer, N. Dak.	3-23
4-12	Building, Loogootee, Ind.	3-30
4-14	School, Decatur, Mich.	3-30
4-14	Post office, Brazil, Ind.	3-9
4-14*	School, Hazleton, Pa.	3-9
4-15	Building, Waterbury, Conn.	3-2
4-15	Plans, Havana, Cuba	10-20
4-16	U. S. post office approaches, Platteville, Wis.	3-16
4-17	U. S. post office, Ames, Iowa	3-16
4-17	School, Lawton, Okla.	3-30
4-17	School, Wayland, Iowa	3-30
4-18	Hospital, Washington, Iowa	3-30
4-18	Barge office, New York, N. Y.	3-9
4-20	U. S. post office, Lagrange, Ga.	3-16
4-21	U. S. post office, McKinney, Tex.	3-16
4-24	U. S. post office, Braddock, Pa.	3-16
4-25	U. S. post office, Terrell, Tex.	3-30
4-25	School, Medford, Ore.	3-30
4-30	School, Summit, N. J.	3-30
5-1	Plans, Vancouver, B. C. (Mfg. Pl.)	3-23
5-3	City hall, Richland Center, Wis.	3-30

Water-Works.

Bids close		Noted in issue of
3-30	Water works, Andover, Ohio	3-30
3-31	Water mains, Milwaukee, Wis.	3-30
3-31	Pump, Northfield, Minn.	3-30
3-31*	Filtration plant, Saskatoon, Sask.	3-9
3-31	Reservoir, Troy, N. Y.	3-9
3-31	Valves, pipe, etc., Troy, N. Y.	3-16
3-31	Gate well, etc., Astoria, Ore.	3-16
3-31	Masonry for water tower, Minneapolis, Minn.	3-23
3-31	Water system, Tulsa, Okla.	3-23
4-1	Reservoir, Tacoma, Wash.	3-23
4-1	Water-works, West Telford, Pa.	3-2
4-1	Steel pipe, Portland, Ore.	3-30
4-1	Valves, Chicago, Ill.	3-30
4-1	Intake pier work, Buffalo, N. Y.	3-30
4-3	Sprinkler system, Watertown, Wis.	3-30
4-3	Pump pit, etc., Lindsborg, Kan.	3-30
4-3	Water pipe extension, Portsmouth, Ohio	3-30
4-3*	Water main, Galveston, Tex.	2-23
4-3*	Cement, Denver, Colo.	3-9
4-3*	Pumps, Welland, Ont.	3-16
4-3	Pipe line, Vallejo, Cal.	3-23
4-3	Water works, Lodgepole, Neb.	3-23
4-3	Vault pans, New York	3-23
4-4	Pump house, Fort Baker, Cal.	3-23
4-4	Water tower, Lakewood, Ohio	3-16
4-4	Pumping machinery, etc., Rouleau, Sask.	3-16
4-4	Water system, Falls City, Ore.	3-30
4-4	Water system, Sugar Creek, Ohio	3-30
4-4	Pumping station, Lyons, Ill.	3-30
4-4	Well, Holland, Mich.	3-30
4-5	C. I. pipe, etc., New York	3-30
4-5	Water mains, Fort William, Ont.	3-30
4-5	Water meters, Boston, Mass.	3-30
4-5	Reservoir, Somerset, Pa.	3-16
4-5	Reservoir, etc., Keeseville, N. Y.	3-9
4-5*	Pump, Winnipeg, Man.	3-23
4-6	Standpipe, Caldwell, Tex.	3-30
4-6	Water main, Linndale, Ohio	3-30
4-7	Water extensions, Seneca, Kan.	3-30
4-7*	Diversion dam, etc., Chambersburg, Pa.	3-16
4-8	Water meters, Edmonton, Alta.	3-23
4-8*	Pumps, Sioux City, Iowa	3-23
4-8	Water supply work, Wetaskiwin, Alta.	3-30
4-10	Pumps, Cincinnati, Ohio	3-30
4-10	Water works, Lewistown, Ill.	3-30
4-10	Water extensions, etc., Moose Jaw, Sask.	3-9
4-10*	Water wheels, Cincinnati, Ohio	3-23
4-12	Standpipe, Tucson, Ariz.	3-23
4-12	Pumping sta. equip., etc., N. Y.	3-30
4-15	Water main, Newburg, Ohio	3-30
4-15	Storage dam, Wells, Nev.	2-23
4-15*	Dam, etc., North Yakima, Wash.	3-2
4-15*	Water softening plant, Ft. McKinley, Me.	3-2
4-17*	Pipe, Fulton, N. Y.	3-30
4-18	Chimney, Richland Center, Wis.	3-30
4-19	Pipe, Winnipeg, Man.	3-23
4-20*	Water system, Helena, Mont.	3-16
4-20	Water-works, Morehead, N. C.	3-30
6-1*	Canal enlargement, Boise, Idaho	3-30

Sewers.

Bids close		Noted in issue of
3-31	Sewers, Des Moines, Iowa	3-23
3-31	Sewers, Ft. Leavenworth, Kan.	3-16
3-31	Sewers, Wyoming, Pa.	3-30
3-31	Castings, Aurora, Ill.	3-30
3-31	Sewer materials, Minneapolis, Minn.	3-30
3-31	Sewers, Blanchardville, Wis.	3-30
4-1	Sewer, Allegan, Mich.	3-16
4-1	Sewers, East Hartford, Conn.	3-23
4-3	Sewers, New York, N. Y.	3-23
4-3	Sewers, Yonkers, N. Y.	3-30
4-4	Sewers, Virginia, Minn.	3-30
4-4	Sewers, Lima, Ohio	3-30
4-4*	Sewer supplies, Saskatoon, Sask.	3-9
4-4	Sewers, Clinton, Iowa	3-23
4-5*	Sewer, Chicago Heights, Ill.	3-23
4-5	Sewer construction, Knoxville, Tenn.	3-30
4-5	Sewer, Akron, Ohio	3-30
4-5	Sewers, New York, N. Y.	3-30
4-6	Sewers, Newark, N. J.	3-30
4-6	Sewer system, South Milwaukee, Wis.	3-23
4-7	Sewers, Albert Lea, Minn.	3-23
4-10	Sewers, Moose Jaw, Sask.	3-9
4-10*	Sewer, Chambersburg, Pa.	3-16
4-10	Sewers, Girard, Ohio	3-30
4-11	Catch basin, drains, etc., Fort Douglas, Utah	3-30
4-11*	Sewers, South Orange, N. J.	3-23
4-14	Sewer, Saskatoon, Sask.	3-16
4-15	Sewers, Cleveland, Ohio	3-16
4-15*	Sewer, Kenosha, Wis.	3-16
4-15	Sewers, Prince Albert, Sask.	3-30
4-17	Sewers, Brainerd, Minn.	3-30
4-18*	Sewers, East Aurora, N. Y.	3-30
4-19	Sewer screens, Baltimore, Md.	3-30
4-19	Sewer pipe, Chicago, Ill.	3-30
4-19	Iron sewer castings, Chicago, Ill.	3-30
4-20	Sewers, Central Point, Ore.	3-30
4-20	Sewer system, Amherst, Ohio	3-23
4-21	Sewers, Seattle, Wash.	3-30
5-1	Sanitary sewers, Golden, Colo.	3-30
5-1	Sewers, Xenia, Ohio	3-30
5-2*	Sewers, Pensacola, Fla.	3-30
7-3	Sewage disposal system, San Jose, Cal.	2-23

Streets and Roads.

Bids close		Noted in issue of
3-31*	Paving, etc., Wilmington, Del.	3-9
3-31	Road repairing, Toledo, Ohio	3-23
3-31	Grading, etc., Bowling Green, O.	3-23
3-31	Paving, etc., Portsmouth, Va.	3-30
3-31	Street imp'ts, Portsmouth, Va.	3-30
4-1	Paving, Lynn, Mass.	3-30
4-1	Paving, Chanute, Kan.	3-30
4-1	Sidewalks, etc., Middletown, Ohio	3-23
4-1	Pavement, Logansport, Ind.	3-16
4-1	Road impt., Cleveland, Ohio	3-16
4-1	Grading, Merrill, Iowa	3-16
4-1	Road work, etc., Newport, R. I.	3-16
4-3	Road construction, Fowler, Ind.	3-16
4-3	Road construction, Hartford City, Ind.	3-16
4-3	Road work, Bronson, Iowa	3-9
4-3	Sidewalks, Grafton, N. Dak.	3-23
4-3	Paving, New Philadelphia, Ohio	3-23
4-3*	Paving, Port Jervis, N. Y.	3-23
4-3	Grading, etc., Ingram, Pa.	3-23
4-3	Street impvt., Jersey City, N. J.	3-23
4-3	Paving, Goshen, Ind.	3-23
4-3	Paving, New York, N. Y.	3-23
4-3	Grading, Selma, Ala.	3-30
4-3	Grading, Jasper, Fla.	3-30
4-3	Paving, Atlanta, Ga.	3-30
4-3	Sidewalks, Indianola, Iowa	3-30
4-3	Sidewalk repair, Boston, Mass.	3-30
4-3	Turnpikes, Batavia, Ohio	3-30
4-3	Road, Metuchen, N. J.	3-30
4-3	Grading, etc., St. Paul, Minn.	3-30
4-3	Sidewalks, Fargo, N. Dak.	3-30
4-3	Sidewalks, Langdon, N. Dak.	3-30
4-3	Sidewalks, Cleveland, Ohio	3-30
4-3	Sidewalks, Lowellville, Ohio	3-30
4-3	Grading & culverts, Hallock, Minn.	3-30
4-4	Roadways, Boston, Mass.	3-30
4-4	Road construction, Meridian, Miss.	3-30
4-4	Road construction, Sullivan, Ind.	3-30
4-4	Repairing, etc., New York	3-30
4-4	Regulating, etc., New York	3-30
4-4	Culverts, Huntington, Ind.	3-30
4-4	Excavating, etc., Davenport, Ia.	3-30
4-4	Macadamized road, Marion, Ind.	3-30
4-4	Pavement, etc., Escanaba, Mich.	3-30
4-4	Pike construction, Upper Sandusky, Ohio	3-30
4-4	Sidewalks, Vincennes, Ind.	3-30
4-4	Gravel roads, Kokomo, Ind.	3-23
4-4	Road construction, Waterbury, Conn.	3-23
4-4	Crushed stone, Bowling Green, O.	3-23
4-4	Macadamizing, Crookston, Minn.	3-23
4-4	Grading, Centralia, Wash.	3-23
4-4	Roads, Bedford, Ind.	3-23
4-4	Grading, etc., Winamac, Ind.	3-23
4-4	Road, Madison, Ind.	3-9
4-4	Road construction, Wetumpka, Ala.	3-16
4-4	Gravel road, Danville, Ind.	3-16
4-4	Gravel road, Logansport, Ind.	3-16
4-4	Macadam road, Paoli, Ind.	3-16
4-4	Macadam road, Kentland, Ind.	3-16
4-4	Macadamized road, Bloomfield, Ind.	3-16
4-5	Paving, Knoxville, Tenn.	3-16
4-5	Stone road, Bloomington, Ind.	3-16
4-5	Culverts, etc., Rugby, N. D.	3-9
4-5	Road impvt., Coupeville, Wash.	3-2
4-5	Paving, Waitsburg, Wash.	3-30
4-5	Regulating, etc., New York	3-30
4-5	Paving, Hampton, Iowa	3-30
4-5	Paving, etc., Indianapolis, Ind.	3-30
4-6	Road repairing, New Brunswick, N. J.	3-30
4-6	Macadamized road, Logansport, Ind.	3-30
4-6	Gravel roads, Lafayette, Ind.	3-30
4-6*	Curbing, etc., Cambridge, Md.	3-2
4-6	Grading, Riverside, Cal.	3-16
4-5	Gravel road, Muncie, Ind.	3-23
4-6	Road, Rockville, Ind.	3-23
4-7	Gravel roads, Brookville, Ind.	3-23
4-7	Gravel road, Wabash, Ind.	3-23
4-7	Walks, Fort Howard, Md.	3-16
4-7	Road repairing, Cincinnati, Ohio	3-16
4-10*	Road construction, Madison Barracks, N. Y.	3-16
4-10	Paving, Lawton, Okla.	3-23
4-10	Paving and curbing, Cresco, Ia.	3-23
4-10	Sidewalks, Terrace Park, Ohio	3-30
4-10	Rd. construction, Cokeville, Tenn.	3-30
4-11*	Roads, etc., Fort Douglas, Utah	3-23
4-11*	Paving, Greenville, Tex.	3-30
4-12	Grading, etc., Bucyrus, Ohio	3-30
4-15	Grading, etc., Cleveland, Ohio	3-23
4-15	Road construction, Swedesboro, N. J.	3-16
4-15	Sidewalk, etc., Long Beach, Cal.	3-30
4-15	Roads, Rushville, Ind.	3-30
4-17	Paving, Brampton, Ont.	3-30
4-17	Grading, etc., Portsmouth, Ohio	3-23
4-17*	Paving, Johnstown, N. Y.	3-23
4-18	Paving, Dublin, Ga.	3-23
4-19	Grading, etc., Bowling Green, O.	3-30
4-24*	Highway imp'ts, Albany, N. Y.	3-30
4-26*	Highway imp'ts, Albany, N. Y.	3-30
4-28*	Highway imp'ts, Albany, N. Y.	3-30
4-29	Paving, etc., Boston, Mass.	3-30

Miscellaneous.

Bids close		Noted in issue of
3-31	Dredging, Boston, Mass.	3-23
3-31*	Dredging, Galveston, Tex.	3-9
3-31	Cement, Peterborough, Ont.	3-30
3-31	Ditch, Winchester, Ind.	3-30
4-1	Road rollers, Simcoe, Ont.	3-30
4-1	Old iron, steel, etc., Boston, Mass.	3-30
4-1	Drainage, Princeton, Ind.	3-30
4-1	Bridge, Spain (Foreign)	2-2
4-1	Cruisers, destroyers, Ottawa, Ont.	2-9
4-1	Telephone system, Pense, Sask.	3-23
4-3	Wharf, Vallejo, Cal.	3-23
4-3	Elevator, Texarkana, Tex.	3-2
4-3	Copper roof, Franklin, Ind.	2-16
4-3*	Street roller, Sacramento, Cal.	3-16
4-3	Fire apparatus, Los Angeles, Cal.	3-16
4-3	Hook & ladder trucks, New York	3-23
4-3	Culverts, Lisbon, N. Dak.	3-30
4-3	Road roller, etc., Columbia, S. C.	3-30
4-4	Broken stone, New York	3-30
4-4	Broken stone, sand, etc., N. Y.	3-30
4-4	Boat house, New York	3-30
4-4	Life saving station, Wash., D. C.	3-30
4-4	Life saving station repairs, Michigan City, Ind.	3-30
4-4	Pipe, Chico, Cal.	3-30
4-4	Breakwater and levee, Martinsville, Ind.	3-30
4-4	Gateway lodge house, Columbus, Ind.	3-16
4-4	Wharf, Chateauguay, Que.	3-16
4-4	Retaining wall, Grand Rapids, Minn.	3-23
4-4	Cable, Australia (Foreign)	2-23
4-4*	Rail and ties, Toronto, Ont.	3-2
4-5*	Steel barges, Memphis, Tenn.	3-
4-5	Railway construction, Regina, Sask. (Elec. Rys.)	3-30
4-5	Retaining walls, Cincinnati, Ohio	3-30
4-5	Telephone line, Weldon, Sask.	3-30
4-5	Trolley poles, San Francisco, Cal.	3-30
4-5	Drains, Clarion, Iowa	3-30
4-6	Playground apparatus, New York	3-30
4-6	Comfort stations, etc., New York	3-30
4-6*	Traveling crane, Grand Rapids, Mich.	3-30
4-6*	Street flushing machines, Grand Rapids, Mich.	3-30
4-6	Rock, New Orleans, La.	3-16
4-7	Pipe, etc., Atlanta, Ga.	3-9
4-7	Stone, Seattle, Wash.	3-16
4-7	Ditch, Beardsley, Minn.	3-23
4-7	Fire Apparatus, Jersey City, N. J.	3-30
4-8	Ditch, Warren, Minn.	3-30
4-10	Levee, Stockton, Cal.	3-30
4-10	Cross and switch ties, Panama (U. S. Poss.)	3-23
4-10	Channel excavation, Buffalo, N. Y.	3-9
4-10	Valve jacks, Wheeling, W. Va.	3-9
4-10*	Sluice gates, Detroit, Mich.	3-9
4-10*	Dredging, Detroit, Mich.	3-16
4-11*	Rock excavation, Portland, Me.	3-16
4-11	Design, etc., for monument, Vincennes, Ind.	3-30
4-11	Road roller, Houston, Tex.	3-30
4-13	Dredging plant, Cincinnati, Ohio	3-23
4-13	Dredging, Wheeling, W. Va.	3-23
4-14*	Structural metal, Vicksburg, Miss.	3-23
4-14*	Granite masonry, Wash., D. C.	3-30
4-14*	Asphalt cement, Kansas City, Mo.	3-30
4-15	Drainage, Marshall, Wis.	3-30
4-15	Powder magazine, Ft. Sill, Okla.	3-30
4-15*	Dredging, Chicago, Ill.	3-30
4-15	Iron trucks, safes, etc., Egypt (Foreign)	3-9
4-15*	Dredging, Duluth, Minn.	3-23
4-16	Cable, Washington, D. C.	3-30
4-17	Tug boat, Washington, D. C.	3-30
4-19	Cement, limestone, etc., Chicago, Ill.	3-30
4-19*	Levee, East St. Louis, Ill.	3-23
4-20*	Superstructure of breakwater, Boston, Mass.	3-23
4-20*	Dredging, Duluth, Minn.	3-23
4-20	Hospital, etc., (plans and designs) Argentine Republic (Foreign)	1-12
4-20*	Dam work, Cincinnati, Ohio	3-23
4-22	Dry kiln, Norfolk, Va.	3-23
4-24	Levee embankment, Cotton Plant, Ark.	3-30
4-24	Jetty, Baltimore, Md.	3-30
4-24*	Dredging mchy., Oswego, N. Y.	3-30
4-24*	Dredging, Detroit, Mich.	3-30
4-26	Ditch, Fort Dodge, Iowa	3-23
4-28*	Removal of wreck, Boston, Mass.	3-30
5-4	Dredging, New York	3-30
5-6	Quarantine sta., Galveston, Tex.	3-30
8-1	Designs, etc., for monument, Cincinnati, Ohio	2-9

Examinations.

Examination date		Noted in issue of
3-31	Engineer Physicist, Wash., D. C.	3-9
4-1	Resident Engineer, Albany, N. Y.	3-9
4-1	Superintendent Water Supply, White Plains, N. Y.	3-9
4-12	Junior engineer (Mining), Washington, D. C.	3-23
4-12	Junior Engineer (mechanical), Washington, D. C.	3-23
4-12	Cadet Engineer, Washington, D. C.	3-16
4-15	Magnetic Observer, Washington, D. C.	3-16
4-19	Aid in Chemistry, Washington, D. C.	3-16
4-19	Junior Chemist, Washington, D. C.	3-16
4-19	Statistician in Forest Products, Washington, D. C.	3-16
4-19	Laboratory Aid, Washington, D. C.	3-16
4-22	Assistant Director, Wash., D. C.	3-23
5-3	Junior chemist, Wash., D. C.	3-23

MANUFACTURING PLANTS.

(Continued from page 152.)

✚WELLAND, ONT. — DAVID DICK & SONS, LTD., of Welland, have secured the contract for the construction of a plant for the Page-Hersey Iron, Tub & Lead Co. here, at a cost of $150,000. They have also been given the contract for the building of a plant for the Canadian Automatic Transportation Co. here, at the cost of $25,000.

WINNIPEG, MAN.—Bids will be received until noon, April 10 by Frank Lee, Div. Engr., Canadian Pacific Ry. Co., Winnipeg, for a boiler shop and transfer table to be erected here.

PORT MANN, B. C.—The United Engineering & Foundry Co., Farmers' Bank Bldg., Pittsburg, Pa., deny the report noted last week that the company's plans had been adopted by the Canadian Northern Railway and the British Columbia Steel Corporation for a steel plant at Port Mann.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

DREDGING. — Portland, Me. — Bids were opened as follows, on March 23, by Lt.-Col. W. E. Craighill, Corps Engrs., U. S. A., Portland, for dredging in Camden Harbor, Me.; (a) dredging; (b) boulders: Charles M. Cole, Fall River, Mass., (a) 39 cts., (b) $10 per ton; John H. Gerrish, Boston, Mass., (a) 33.3 cts.; (b) $8; J. S. Packard Dredging Co., Providence, R. I. (a), 39 cts., (b) $10.

DREDGING.—Boston, Mass.—Bids were received as follows, on March 25, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for about 32,000 cu. yds. of dredging at navy yard, Boston: Bay State Dredging Co., Ltd., 247 Atlantic Ave., Boston, Item (1), $11,500; Eastern Dredging Co., 847 Atlantic Ave., Boston, Item (1), 34.3 cts. per cu. yd., measured in place.

*REMOVAL OF WRECK.—Boston, Mass.—Bids will be received until noon, April 28, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Boston, for the removal of schooner "Davis Palmer" in Broad Sound, Boston Harbor. Navigation is obstructed and endangered by the wreck and unless otherwise removed within 30 days, the U. S. Government will do the work of removal.

OLD IRON, STEEL, ETC.—Boston, Mass.—The Boston Elevated R. R. Co. will receive bids through Edward Mahler, Pur. Agt., 101 Milk St., until April 1, for 34 tons of cast iron, 27 tons of copper, 390 tons of steel girders, and 154 tons of steel (wheels). These are stored at the various stations in Dorchester, Cambridge, Roxbury and Charlestown.

DREDGING, ETC.—Newport, R. I.—Bids were received as follows, on March 25, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of dolphins, fender piles, floating fenders, and dredging at Bradford, Newport, R. I.: Joseph C. Terry, 204 Remington Ave., Fall River, Mass., Item (3), $8,500; J. S. Packard Dredging Co., 31 Market Sq., Providence, R. I., Item (3), $8,990; Item (5), dredging only, 36 cts. per cu. yd.

PAVING BLOCKS.—Providence, R. I.—The contract for furnishing 275,000 granite paving blocks, bids for which were opened by the Board of Contract and Supply on March 22, has been awarded to BOOTH BROS., of the Hurricane Island Granite Co. The bid was $60 per M. on one lot of 100,000 blocks; $61 per M. on a second lot of 100,000 blocks, and $62 per M. for 75,000 blocks.

PLAYGROUND APPARATUS.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., April 6, for all labor and material required for completing the contract abandoned by Schoverling, Daly & Gales for furnishing and erecting playground apparatus in various parks in the boroughs of Manhattan and Richmond.

COMFORT STATIONS, ETC.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., April 6, for all labor and material required for the erection and completion of comfort and shelter building located in Bushwick Playground, at Putnam Ave. and Woodbine St. extension, Boro. Brooklyn, together with all the work incidental thereto; and for all labor and materials required for the erection and completion of comfort and shelter building located in Red Hook Playground, at Richards, King, Dwight and Pioneer Sts., Boro. Brooklyn, together with all the work incidental thereto.

BROKEN STONE.—New York, N. Y.—Bids will be received by George Cromwell, Pres. Boro. Richmond, until noon, April 4, for furnishing and delivering 2,500 tons of ¾-in. broken stone at Stable "A," Swan St., Tompkinsville, Staten Island; and for furnishing and delivering 2,500 tons of ¾-in. broken stone at Stable "B," Columbia St., West New Brighton, Staten Island.

BROKEN STONE, SAND, ETC. — New York, N. Y.—Bids will be received by George Cromwell, Pres. Boro. Richmond, until noon, April 4, for furnishing all the labor and materials required for furnishing and delivering 8,000 tons of broken stone and screenings in Stone District No. 1, and 10,000 tons and screenings in Stone District No. 2; and 10,000 tons and screenings in Stone District No. 3; for furnishing all the labor and materials required for furnishing and delivering 50,000 gallons of bituminous road surfacing material with tar as a base; for furnishing all the labor and materials required for furnishing and delivering 150,000 gallons of macadam road binder with asphalt as a base; and for furnishing all the labor and materials required for furnishing and delivering 1,500 cu. yds. of sand and gravel.

BOATHOUSE.—New York, N. Y.—Bids will be received until 2 p. m., April 4, by the U. S. Life Saving Service, Treasury Dept., Washington, D. C., for the construction of a lifeboat house and launching at Whig Inlet, near Fire Island, N. Y.

DREDGING.—New York, N. Y.—Bids will be received by Col. W. M. Black, Corps Engrs., U. S. A., Army Bldg., New York, until noon, May 4, for dredging in Wappinger Creek, New York, and in harbors at Tarrytown and Peekskill.

COMFORT STATION.—New York, N. Y.—Bids were received by the Park Board, Dept. of Parks, on March 23 for the construction of a comfort station in Central Park near the Swiss Cottage. The lowest bid of 24 submitted was that of the Richard Carvel Co., 401 West 59th St., at $21,996.

*DREDGING MACHINERY.—Oswego, N. Y.—Bids will be received until 10 a. m., April 24, by Capt. W. L. Guthrie, Corps Engrs., U. S. A., Oswego, for dredging machinery for dipper dredge.

FIRE APPARATUS.—Jersey City, N. J.—Bids will be received until 3 p. m., April 7, for furnishing one new first size steam fire engine equipped with rubber tires and band friction brakes, and one new 85-ft. automatic quick-raising aerial hook and ladder truck, complete, equipped with fire-stone side wire rubber tires, or tires equal thereto automobile stereing gear and band friction brake on front wheels.

✚*GRAND STAND.—Allentown, Pa.—The Executive Committee of the Lehigh County Agricultural Society awarded the contract, on March 23, to the OCHS CONSTRUCTION CO., of Allentown, Pa., for the construction of a new steel and concrete grand stand, at $84,793.

JETTY.—Baltimore, Md.—Bids will be received until noon, April 24, by Col. Thomas L. Casey, Corps Engrs., U. S. A., 309 Custom House, Baltimore, for jetty construction at Claiborne Harbor, Md.

CABLE, WASHINGTON, D. C.—Bids will be received until April 16 by Capt. A. S. Cowan, Signal Corps, U. S. A., Disbursing Officer, War Department, for furnishing 170 miles of single-conductor, intermediate cable No. 65.

✚FIELD WIRE.—Washington, D. C.—The contract for furnishing 300 miles of field wire for the U. S. Signal Corps has been awarded to the ATLANTIC INSULATED WIRE & CABLE CO., 120 Liberty St., New York, at $50.95 per mile. List of bidders noted on March 9.

TUBBOAT.—Washington, D. C.—Bids will be received until noon, April 17, by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., N. W., Washington, for the construction of the steel screw tug "Colonel Leach."

ENGINE HOUSE.—Washington, D. C.—Bids were received as follows, on March 24, by the Commissioners of the District of Columbia, for the construction of Engine House No. 24, on Georgia Ave.: W. E. Mooney, $21,775; Arthur L. Smith & Co., $22,755; Burgess & Parsons, $23,500; Hoge & Luebkert, Inc., $22,432; Allan T. Howison, $21,965; Skinker & Garrett, $22,640; Randolph L. Jennings, $22,780; W. H. McCray, $24,943. All of Washington, D. C.

LIFE SAVING STATION. — Washington, D. C.—Bids will be received until 2 p. m., April 4, by the Life Saving Service, Treasury Dept., Washington, for the construction of a life saving station at Wachapreague, Va.

*GRANITE MASONRY.—Washington, D. C.—Bids will be received until noon, April 14, by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for furnishing materials and erecting complete, in accordance with plans and specifications, cut granite masonry in approaches to the proposed McMillan Memorial Fountain.

ROAD ROLLER, ETC.—Columbia, S. C.—W. F. Muller, Superv. Richland County, Columbia, will receive bids until noon, April 3, for furnishing a 10-ton motor roller and road scarifier. W. C. Thomas is Clk. Bd.

✚LEVEE WORK.—New Orleans, La.—Bids were received on March 10, by the Board of State Engineers, for the construction of the Villa Vista Levee, in East Carroll and Madison Parishes, aggregating 296,000 cu. yds. The contract has been awarded to CLARK & HELGASON BROS., of Vicksburg, Miss., at 14.48 cts. per cu. yd.

✚*EXTENDING JETTIES.—New Orleans, La.—The contract for extending the jetties at Southwest Pass, Mississippi River, has been awarded, it is reported, to CHRISTIE & LOWE, of New Orleans, at $670,183. Bids were opened by Lt.-Col Lansing H. Beach, Corps Engrs., U. S. A. List of bidders noted on March 23.

RETAINING WALLS.—Cincinnati, Ohio.—Bids will be received at the office of the Director of Public Service, until noon, April 5, for the construction of reinforced concrete retaining walls along the property lines at the north end of the extension of Young St. John J. Wenner is Clk.

LIFE SAVING STATION REPAIRS.—Michigan City, Ind.—Bids will be received until 2 p. m., April 4, by the U. S. Life Saving Service, Treasury Dept., Washington, D. C., for alterations, repairs and improvements to the Michigan City life saving station.

BREAKWATER AND LEVEE.—Martinsville, Ind.—Bids will be received by the Board of Morgan County Commissioners until April 4 for the construction of a concrete breakwater and levee along Sand Ditch. J. S. Whitaker is County Audr.

DRAINAGE.—Princeton, Ind.—Bids will be received by the Clerk of Gibson County until April 1 for the construction of a drainage system, to include about 641,510 cu. yds. Harry C. Morrison, of Princeton, is Engr.

MONUMENT.—Vincinnes, Ind.—The Commissioners of Knox County will receive bids until 10 a. m., April 11, for a design accompanied with plans and specifications and estimate of cost for the erection of a soldiers' monument in courthouse yard, estimates not to exceed $50,000. John T. Scott is County Audr.

DITCH.—Winchester, Ind.—Bids will be received until 10.30 a. m., March 31, by the Commissioners of Randolph County for the construction of the Edwards Ditch in Washington Township. The work will include four miles of open and four miles of tile ditch. Estimated cost, $11,500. A. B. Purdy is County Engr. Noted on March 23.

*DREDGING.—Detroit, Mich.—Bids will be received until April 24 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for dredging Saginaw River, Mich.

*TRAVELING CRANE.—Grand Rapids, Mich.—Bids will be received by the Board of Public Works until 8 p. m., April 6, for furnishing and erecting one traveling crane for the city, according to the plans and specifications on file at the office of the board. Samuel A. Freshney is Secy. and Gen. Mgr.

*STREET FLUSHING MACHINES.—Grand Rapids, Mich.—Bids will be received by the Board of Public Works until 8 p. m., April 6, for two street flushing machines for the city, according to the plans and specifications on file at the office of the board.

CEMENT, LIMESTONE, ETC. — Chicago, Ill.—Bids will be received by the South Park Commissioners, 57th St. and Cottage Grove Ave., until noon, April 19, for furnishing and delivering Portland cement, crushed limestone, building sand, torpedo sand and sewer pipe at various points within the south park system previous to June 1, 1912, as ordered. James H. Burdett is Secy.

*DREDGING.—Chicago, Ill.—Bids will be received until 10 a. m., April 15, by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., Chicago, for dredging in Indiana Harbor, Ind.

✚DRAINAGE AND DREDGING.—Madison, Wis.—The Yahara River Improvement Co. has awarded the contract for drainage and dredging the Yahara Canal from Lake Monona to Lake Waubesa to the MONONA DREDGING CO., of Madison.

DRAINAGE.—Marshall, Wis.—Bids will be received until April 15 by the Commissioners of Shepard Drainage District, Marshall, for drainage work in the district. Specifications can be obtained from W. H. Tasker, Marshall.

DRAINS.—Clarion, Iowa.—E. M. Callender, County Audr., will receive bids until 3 p. m., April 5, for the construction of drains Nos. 36, 62, 63, 65 and 64.

✚DITCH.—Olivia, Minn.—J. L. Johnson, County Audr., has awarded the contract for constructing Judicial Ditch No. 9 to JERRY SHERWOOD, of Litchfield, Minn., at $11,489. Bids were opened on March 15.

DITCH.—Warren, Minn.—A. G. Lundgren, County Audr., will receive bids until 2 p. m., April 8, for the construction of Judicial Ditch No. 14, comprising 295,783 yds. of excavation. Estimated cost, $50,365.

STEEL CULVERTS.—Lisbon, N. Dak.—Bids will be received by the Board of Commissioners of Ransom County until April 3 for constructing corrugated steel culverts to be used during the year. I. E. Arntson is County Audr.

*ASPHALT CEMENT.—Kansas City, Mo.—Bids will be received by the Board of Public Works until April 14 for 2,000 tons of asphalt cement or materials from which asphaltic cement may be manufactured. L. R. Ash is City Engr. For details see advertisement in this issue.

LEVEE EMBANKMENT. — Cotton Plant, Ark.—Bids will be received until 10 a. m., April 24 by the Board of Directors of the White River Levee District for the construction of approximately 60,000 cu. yds. of levee embankment across Jackson Bayou, in Prairie County, Ark. W. T. Trice is Pres. Bd. W. A. Keene, Jr., is Engr.

QUARANTINE STATION.—Galveston, Tex.—Bids will be received until 3 p. m., May 6, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of the quarantine station here.

✚DREDGING.—Galveston, Tex.—The contract has been awarded, it is reported, to the BOWERS SOUTHERN DREDGING CO., of Galveston, for dredging a channel between Brazos River and Matagorda Bay. about 2,166,800 cu. yds. Bids were opened on Feb. 11. List of bidders noted on March 2.

ROAD ROLLER.—Houston, Tex.—Bids will be received until noon, April 11, by John B. Ashe, County Audr., Houston, for one road roller.

POWDER MAGAZINE.—Fort Sill, Okla.—Bids will be received until 10 a. m., April 15, by the Constructing Quartermaster, U. S. A., for constructing a powder magazine here.

PIPE.—Chico, Cal.—Bids will be received by B. F. Hudspeth, City Clk., until 7.30 p. m., April 4, for furnishing about 600 ft. of No. 1 steel or iron pipe 8 and 10-in. diameter, double riveted and dipped in asphaltum, about one-third of the pipe to be in 10-ft. lengths and the balance 20 ft. Bidders are to submit price per foot f. o. b. Chico, on each size of pipe.

TROLLEY POLES.—San Francisco, Cal.—Bids will be received by the Board of Public Works, David Hewes Bldg., 995 Market St., until 2 p. m., April 5, for furnishing and delivering the city and county a quantity of tubular steel trolley poles for the Geary St. municipal railway, in accordance with plans and specifications on file with the board.

LEVEE.—Stockton, Cal.—Bids will be received by L. Frank Kuhn, Clk. City Council, until 5 p. m., April 10, for furnishing the labor and materials and for doing the work in the construction of a levee along portions of McLeod's Lake and the north bank of Stockton Channel.

ROAD ROLLERS.—Simcoe, Ont.—Bids will be received by W. C. McCall, Town Clk., until April 1, for a steam road roller, prices to be given on both 10 and 12-ton rollers, delivered f. o. b. Simcoe, fu... ...ription of machine to accompany bid ... ...livery to be made on or before May 1.

For other Proposal Adv...sements see pages 49, 50, 52, 54, 5... Advertisements and Constru... News page 156.

STREET PAVIN...

Greenv... ...xas.

Sealed bids will be receive... ...office of the undersigned until 3 ... P. M. April 11, 1911, at Greenvill... ...for 148,600 square yards of ...p... ...and 84,000 lineal feet of concrete ...

The different kinds of pa... ...be selected after bids are open... ...least 25,000 square yards will be ... ...each contract.

Bids will be received on ... ...thic, Vitrified brick, creosoted wo... ...cks, Hassam concrete, Vibrolithic, ... As-phalt and Asphaltic concrete.

City reserves the right to r... any or all bids.

Each bidder shall deposit certi... ...eck in the sum of $1,000.00, mad... ...able to the Mayor of the City of G... ...ille, Texas.

Specifications can be seen at ... ...of the City Engineer, J. H. Rus... E. L. Dalton, Consulting Engineer, ...llas, Texas. Bidders wanting speci... ...ions sent out of City send check for ... to cover cost.

(Signed)

W. A. FRAZER, City Cl...

Greenville, Te...

TRAVELING CRANE.

OFFICE BOARD OF PUBLIC WORKS,

Grand Rapids, Mich., March 23, 1911.

Sealed proposals will be received at the office of the Board until April 6, 1911, at 8:00 p. m., for furnishing and erecting one traveling crane for the City of Grand Rapids, Michigan, according to the plans and specifications on file at the office of the Board.

The Board reserves the right to reject any or all bids.

Each bidder shall deposit with his proposal a certified check or certificate of deposit payable to the order of HENRY J. KLEVORN, President, in the sum of 5 per cent. of his proposal, but not less than $50.00, to be forfeited to the City of Grand Rapids in case he shall fail to enter into contract, in accordance with his proposals, should his proposal be accepted by the Board of Public Works.

By order of the Board.

HENRY J. KLEVORN, President.

Attest: SAMUEL A. FRESHNEY, Secretary and General Manager.

FLUSHING MACHINES.

OFFICE BOARD OF PUBLIC WORKS.

Grand Rapids, Mich., March 23, 1911.

Sealed proposals will be received at the office of the Board until April 6, 1911, at 8:00 p. m., for two street flushing machines for the City of Grand Rapids, Michigan, according to the plans and specifications on file at the office of the Board.

The Board reserves the right to reject any or all bids.

Each bidder shall deposit with his proposal a certified check or certificate of deposit payable to the order of HENRY J. KLEVORN, President, in the sum of 5 per cent. of his proposal, but not less than $50.00, to be forfeited to the City of Grand Rapids in case he shall fail to enter into contract. In accordance with his proposals, should his proposal be accepted by the Board of Public Works.

By order of the Board.

HENRY J. KLEVORN, Presiden...

Attest: SAMUEL A. FRESHNEY, Secretary and General Manager.

U. S. ENGINEER OFFICE, Oswego, N. Y., March 18, 1911.—Sealed proposals for dredging machinery for dipper dredge will be received here until 10 A. M., April 24, 1911, and then publicly opened. Information on application. W. L. GUTHRIE, Captain, Engineers.

U. S. ENGINEER OFFICE, Chic... Ill., March 25, 1911.—Sealed proposals for dredging in Indiana Harbor, Ind., will be received here until 10 A. M., April 15, 1911. Information on application. GEO. A. ZINN, Lt. Col., Engrs.

HIGHWAYS.

Albany, N. Y.

OTICE TO CONTRACTORS.—State of New York, Office of the State Commission ighways, Albany, N. Y. Pursuant to the provisions of chapter 30, Laws of sealed proposals will be received by the undersigned at their office, No. 55 Lan- r street, Albany, N. Y., at one o'clock P. M. on Monday, the 24th day of April, for the improvement of the following highways:

unty.	Road No.	Name.	Approx. length.
mbia	5103	Stottsville-Stuyvesant Falls	5.00
mbia	5104	Stuyvesant Falls-Valatie	4.50
ess	5092	Red Hook-Rhinebeck	4.15
ess	5095	Red Hook Village	1.33
	913	Ellicott Creek	1.77
on and Montgomery	5096	Fonda-Johnstown	3.03
imer	465	Salisbury Center-Burrells	5.43
ngston	716	Livonia-Lakeville	2.23
ison	883	De Ruyter-Lawson's Forks	2.14
tgomery	5109	St. Johnsville-Nelliston	4.79
au	898	E. Norwich-Memorial Cemetery	2.88
ndaga	896	Eastwood Village-E. Syracuse Village	2.43
nge	415	Newburg-Cornwall	3.18
nam	909	Brewster-Carmel	4.56
nam	5098	Brewster Village	1.14
sselaer	5107	Rensselaer City	0.40
ben	903	Thurston-Campbell, Part 2	2.07
ter	310	Post Road	4.25
yne	918	Macedon-Cator Four Corners	1.16
tchester	899	Cross River-Crafts Corners	5.68
oming	892	Castile-Castile Center	1.43
esee	922	Indian Falls-Corfu, Part 2	1.85
esee	923	Pavillion-Batavia, Part 1	4.70

An Alternative Proposal to be endorsed "5103-4 combined" will be received for following roads combined in one contract, viz.:

umbia	5103	Stottsville-Stuyvesant Falls	9.50
	5104	Stuyvesant Falls-Valatie	

The Commission reserves the right to award contracts for State highways 5103 and 04 in the manner which shall be deemed most advantageous for the State, namely: her on separate proposals for highways 5103 and 5104 or on proposals for these two ghways combined.

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster street, Albany, N. Y., at one o'clock P. M., on Wednesday, the 26th day of April, 1911, for the improvement of the following highways:

County.	Road No.	Name.	Approx. length.
Essex	891	Ticonderoga-Crown Point, Part 1	5.99
Dutchess	709	Millerton-Columbia County Line	4.80
Dutchess	748	Pleasant Valley-Washington Hollow	5.46
Erie	914	Broadway-Depew	3.52
Erie	915	Lancaster Village	1.46
Erie	916	Depew Village	2.30
Erie	917	Lancaster-Alden	4.11
Herkimer	466	Burrells-Middleville	5.56
Livingston	717	Livonia-Ontario County Line	5.87
Madison	908	Canastota Village	2.07
Montgomery	889	Fort Plain Village	0.64
Nassau	5106	Little Neck-Old Westbury, Parts 1 and 4	2.50
Onondaga	897	Skaneateles-Camillus, Part 2	4.24
Orange	416	Rockland County Line-Tuxedo	6.10
Rensselaer	5108	Brainerd Station Highway	0.20
Essex	5117	Euba Mills-New Russia	6.00
Steuben	904	Atlanta-North Cohocton	1.64
Steuben	905	Troupsburg Center-South Troupsburg	3.90
Suffolk	912	Port Jefferson-Coram	6.69
Sullivan	824	Stone Bridge-Falls Mills	3.38
Ulster	921	Rifton Village	2.13
Wayne	919	Clyde-Resort, Part 1	3.81
Westchester	900	Woods Bridge-Lewis Corners	4.26
Wyoming	893	Bliss-Smith Corners	3.61
St. Lawrence	5115	Canton-Potsdam, Part 1	4.74
St. Lawrence	5116	Canton-De Kalb	5.43

An alternative proposal to be endorsed as "5115-16 combined" will also be received for the following roads combined in one contract, viz.:

St. Lawrence	5115	Canton-Potsdam, Part 1	10.17
	5116	Canton-DeKalb	

The Commission reserves the right to award contracts for State highways 5115 and 5116 in the manner which shall be deemed most advantageous for the State, namely: either on separate proposals for highways 5115 and 5116 or on proposals for these two highways combined.

Sealed proposals will also be received by the undersigned at their office, No 55 Lancaster street, Albany, N. Y., at one o'clock P. M., on Friday, the 28th day of April, 1911, for the improvement of the following highways:

County.	Road No.	Name.	Approx. length.
Broome	902	Glen-Aubrey-Whitney's Point	5.30
Cattaraugus	5099	Olean City	.36
Cayuga	5101	Auburn City	1.83
Chemung	888	Horseheads-Catlin	3.72
Clinton	5102	Champlain-Mooers Forks, Part 2	7.00
Dutchess	895	Fishkill Village	1.06
Fulton	544	Johnstown-Broadalbin	6.28
Herkimer	5105	Little Falls City	1.88
Monroe	5097	Garbutt's Crossing	1.06
Oneida	5091	Yorkville Village	1.06
Schenectady	5110	Wyatts-Hoffman	5.42
Seneca	5087	Geneva-Waterloo	5.95
Seneca	5100	Seneca Falls Village	2.50
Steuben	906	Big Creek, Parts 1 and 2	5.98
Steuben	907	Big Creek, Part 4	4.13
Steuben	5094	Painted Post-Addison, Part 2	2.50
Suffolk	5111	Jericho Turnpike, Part 2	5.02
Suffolk	5112	Jericho Turnpike, Part 3	4.99
Sullivan	890	Monticello-Mongaup Valley	4.87
Ulster	5114	Milton-Marlboro	3.82
Washington	5113	Cambridge-Salem, Part 1	3.75
Wayne	920	Lyons-Sodus Point, Part 1	3.00
Westchester	901	Port Chester-Crystal Springs, Part 1	1.89
Wyoming	894	Java Center-Java Village	3.56

An alternative proposal to be endorsed as "5111-12 combined" will also be received for the following roads combined in one contract, viz.:

Suffolk	5111	Jericho Turnpike, Part 2	10.01
	5112	Jericho Turnpike, Part 3	

The Commission reserves the right to award contracts for State Highways 5111 and 5112 in the manner which shall be deemed most advantageous for the State, namely: Either on separate proposals for highways 5111 and 5112 or on proposals for these two highways combined.

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the offices of Division Engineer Spencer J. Stewart, Columbus Hall, Poughkeepsie, N. Y., for highways in the counties of Dutchess, Nassau, Orange, Putnam, Suffolk, Sullivan, Ulster and Westchester; at the office of Division Engineer Harry P. Willis, Humane Building, Albany, N. Y., for highways in the counties of Clinton, Columbia, Essex, Fulton, Montgomery, Rensselaer, Schenectady, Warren and Washington; also at the office of Division Engineer Guy H. Miller, Cleveland Building, Watertown, N. Y., for highways in the counties of Herkimer, Oneida and St. Lawrence; also at the office of Division Engineer Fred W. Sarr, South Clinton and West Jefferson streets, Syracuse, N. Y., for highways in the counties of Cayuga, Madison, Onondaga, Seneca and Wayne; also at the office of Division Engineer M. W. Wilbur, 423 Cutler Building, Rochester, N. Y., for highways in the counties of Cattaraugus, Erie, Genesee, Livingston, Monroe and Wyoming; and also at the office of Division Engineer Paul McLoud, Press Building, Binghamton, N. Y., for highways in the counties of Broome, Chemung and Steuben.

The especial attention of bidders is called to "Information for Proposers" on pages 6 and 7 of the specifications.

Proposals for each highway must be presented in a separate sealed envelope endorsed on the outside with the name and number of the highway for which the proposal is made.

Each proposal must be accompanied by a New York draft or certified check payable to the order of the State Commission of Highways for an amount equal to at least five per cent. of the amount of the proposal which such draft or check accompanies. This draft or check will be held by the Commission until the contract and bond are duly executed.

The successful bidder will be required to give a bond for fifty per cent. of the amount of the contract; such bond to be executed by a Surety Company to be approved by the Commission, or a bond secured by the deposit of collateral securities to be approved by the Commission.

The right is reserved to reject any or all bids.

S. PERCY HOOKER, Chairman;
T. WARREN ALLEN,
ROBERT EARL,
Commissioners.

RAILROAD BRIDGES OVER CAHOKIA CREEK DIVERSION CHANNEL, MADISON COUNTY, ILLINOIS.

OFFICE OF BOARD OF TRUSTEES.
THE EAST SIDE LEVEE AND SANITARY DISTRICT,
SEXTON BUILDING.

East St. Louis, Ill., March 11, 1911.

Sealed proposals, in duplicate, for the construction of Five (5) Railroad Bridges over Cahokia Creek Diversion Channel, in Madison County, Illinois, in accordance with Ordinances numbered 5 and 15 of The East Side Levee and Sanitary District and the plans and specifications for the same, now on file in the office of said District, will be received at this office until twelve o'clock noon, standard time, April 25th, 1911, and then publicly opened. Copies of plans and specifications may be had on application by mail or in person. All proposals must be made on the printed forms prepared by The East Side Levee and Sanitary District.

DESCRIPTION.

The work included in the contract covers the construction of three (3) single track, deck plate girder bridges, each having five (5) spans, fifty-five (55) feet in length, one (1) single track deck plate girder bridge, five (5) spans, fifty-eight (58) feet in length, and one (1) double track deck plate girder bridge, five (5) spans, sixty-four (64) feet in length.

Each bridge will have two (2) abutments and four (4) piers, about twenty-five (25) feet high, on pile foundations. Two of the bridges, in addition to the double track bridge, will be constructed with piers and abutments providing for a future second track. Two of the single-track bridges will have reinforced concrete decks.

All five bridges are located along Cahokia Creek Diversion Channel in Chouteau Township, Madison County, Illinois, and are about three (3) miles north of Mitchell, Illinois.

Proposals should be based on the following estimates:

Structural Steel, 1,625,000 pounds.
Concrete, 5,500 cubic yards.
Piling, 30,000 lineal feet.
Steel Reinforcement, 116,000 pounds.
Guard Rail, 12,800 pounds.
Creosoted Timber, 13,500 feet B. M.
Wet Excavation, 2,000 cubic yards.
Dry Excavation, 16,000 cubic yards.

Proposals for said work must be accompanied by a money deposit in the form of a certified check upon some satisfactory banking institution in the City of East St. Louis, Illinois, or St. Louis, Missouri, and payable at sight to the President of The East Side Levee and Sanitary District, for Five Per Centum (5 per cent.) of the amount of the proposal.

The bidder to whom award is made will be required to enter into a written contract with The East Side Levee and Sanitary District, with good and approved security in an amount equal to the amount of contract, within ten (10) days after being notified of the acceptance of his proposal.

The contract which the bidder promises to enter into is fully set forth in the blank forms which can be inspected at this office and will be furnished, if desired, to parties proposing to put in bids. Parties making bids are to be understood as accepting the terms and conditions in such form of contract.

Upon completion of the work according to the contract, plans, specifications and agreements as determined thereunder by the engineer, including extra work when authorized by the engineer in charge in accordance with the terms and conditions of the contract, the said engineer shall make to the contractor, a statement setting forth the work done by said contractor, together with the amount due the said contractor therefor, and shall certify the same in writing under his hand. The obtaining of the certificate of the engineer as to the work done, and the price thereof, shall be a condition precedent to the right of the contractor to be paid the sum due him under the terms of this contract.

The Board of Trustees reserves the right to reject any and all bids.

H. D. SEXTON,
President, Board of Trustees, The East Side Levee and Sanitary District.

CONCRETE ARCH BRIDGE.

OFFICE BOARD OF PUBLIC WORKS.
Paducah, Ky., March 27, 1911.

Sealed proposals will be received at the office of the Board of Public Works until April 17, 1911, at 10 a. m., for the construction of a reinforced concrete bridge 43 ft. wide and 295 ft. long.

Approximate quantities as follows:

Excavation, 170 cubic yards.
Linear feet concrete piling, 3,720 feet.
Concrete in piers, abutments and retaining walls, 514 cubic yards.
Concrete in arches, girders, columns, beams, floor and railing, 767 cubic yards.
Reinforcing steel in piles, 77,600 lbs.
Reinforcing steel in superstructure, 115,366 lbs.
Cast steel hinges, 11,000 lbs.
Lamp posts, 8.
Waterproofing, 720 square yards.
Cement sidewalks, 4,380 square feet.
Creosote wood paving blocks, 920 square yards.

Eightly per cent. (80%) to be paid by the city of Paducah upon monthly estimates, and balance paid upon completion and acceptance of the work.

All the above material and work to be furnished and done in accordance with plans and specifications on file at the office of the City Engineer. Each bid must be accompanied with a certified check for $1,000.00, payable to E. J. Paxton, Treasurer, to be forfeited to the City of Paducah in case he shall fail to enter into contract in accordance with his proposal, should his proposal be accepted by the Board of Public Works.

Anyone desiring copies of plans and specifications can obtain same from the City Engineer upon receipt of an accepted check for $5.00, payable to E. J. Paxton, City Treasurer.

Proposals must be made on blanks attached to the specifications.

The Board reserves the right to reject any and all bids; to waive any informalities, and accept any bid considered advantageous to the City of Paducah.

By order of the Board.

L. A. WASHINGTON,
City Engineer.

HIGHWAY IMPROVEMENTS.

North Tarrytown, N. Y.

Notice is hereby given that sealed proposals for the permanent improvement of highways in the Town of Mount Pleasant as hereafter described will be received by the Town Clerk for the Town Board of said Town, at the Town Clerk's office on Cortlandt Street in the village of North Tarrytown, N. Y., until 10 o'clock a. m., Tuesday, April 18, 1911. Said work is to be done in strict accordance with plans and specifications therefore as approved by the County Engineer of Westchester County and adopted by the Town Board of the Town of Mount Pleasant and now on file in the office of the Town Clerk of said Town.

The roads to be improved are described as follows:

Hardscrabble Road, from the Pleasantville-Ossining Road Northerly to the Town Line, a distance of 2.07 miles.

Bare Ridge Road, from the easterly line of the Village of Pleasantville to King Street, a distance of 1.60 miles.

Bids for these roads must be in writing, signed by the bidder or bidders, and must be accompanied by a bank draft or certified check payable at sight to the order of the Supervisor of the Town of Mount Pleasant in the amount of 10% of the proposal as a guarantee that the bidder will enter into the contract if the work is awarded to him, and in case he refuses to do so within the specified time, the same shall be forfeited to and be retained by said Town of Mount Pleasant as liquidated damages for such refusal and not as a penalty. Said draft or check will be returned to the bidder as soon as he has entered into a contract with the said Town and furnished satisfactory bonds as required. Those of the unsuccessful bidders will be returned immediately after the contract has been awarded. Proposals must be upon the official form prescribed by, attached to and forming part of the specifications for this work, and which may be procured at the said Town Clerk's office, and the price bid shall be to cover all said work and expenses of every kind incidental to the carrying out of the plans, profiles, drawings and specifications therefore.

The Town Board of the said Town reserves the right to reject any and all bids or proposals and to accept whatever bid or proposal may in its judgment be most favorable to the said Town of Mount Pleasant.

By Order of the Town Board.

EDWARD F. HENNESSEY,
Town Clerk.

Dated, March 23, 1911.

REINFORCED CONCRETE HIGHWAY BRIDGE.

Easton, Pa.

Sealed proposals will be received by the Commissioners of Northampton County, Penna., at their office in the Court House at Easton, Pa., until 1 P. M., April 18, 1911, for the construction of a Reinforced Concrete Bridge and other work incidental thereto, at Easton, Pa. The bridge will consist of two 92-foot and one 100-foot spans, with an approximate width of 65 feet. A certified check for at least 10% of the bid, together with the proposal must be deposited with the Commissioners before 1 P. M. on the day bids are received. Specifications and general drawings are on file at the County Commissioners' office, and copies can be obtained of the Engineers, upon a deposit of ten dollars. Each bidder will be required to file with his bid detailed plans conforming to all requirements, and showing fully all sections, reinforcements, etc., and following the general architectural treatment of the plans on file. The Commissioners reserve the right to reject any and all bids.

YOUNG & REESE,
County Engineers,
Room No. 1, Pomfret Bldg.,
Easton, Pa.

U. S. ENGINEER OFFICE, Boston, Mass., March 28, 1911.—To Whom It May Concern: Whereas navigation is obstructed and endangered by wreck of schr. "Davis Palmer," in Broad Sound, Boston Harbor, Mass.; Notice is hereby given that unless otherwise removed within thirty days, it will be removed by the United States under authority of law. Sealed proposals for its removal will be received here until 12 M., Apr. 28, 1911, and then publicly opened. Information on application. FREDERIC V. ABBOT, Col., Engrs.

SEWAGE SCREENS.

OFFICE OF THE SEWERAGE COMMISSION OF THE CITY OF BALTIMORE.

Advertisement of Sanitary Contract No. 65 Sewage Screens for Sewage Disposal Works.

Sealed Proposals, indorsed "Proposal for Furnishing, Building and Installing Sewage Screens for Sewage Disposal Works, Sanitary Contract No. 65," addressed to the Board of Awards of Baltimore City, will be received at the office of Mr. J. Sewell Thomas, City Register, City Hall, Baltimore, Md., until 11 A. M., Wednesday, April 19th, for furnishing, building and installing sewage screens for Sewage Disposal Works, as shown on plans on file in the office of Mr. Calvin W. Hendrick, Chief Engineer of the Sewerage Commission.

Specifications and plans can be obtained upon application at the office of the Sewerage Commission, Room 904 American Building, Baltimore, Md., on and after Monday, March 27th. A charge of $5.00 will be made for each specification and blueprints. This charge will be refunded upon the return, on or before April 19th, 1911, of the unused specifications and plans in good condition, or upon the return of the plans in case a bid is submitted.

A certified check of the bidder, for the amount of $1,000.00 on a clearing-house bank, made payable to the order of the Mayor and City Council of Baltimore, will be required to be deposited with each bid.

The successful bidder on this contract will be required to give bond and comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any and all bids.

By order of the Sewerage Commission.

CHARLES ENGLAND,
Chairman.

HARRY W. RODGERS,
Secretary.

Approved:
J. BARRY MAHOOL,
President, Board of Awards.

STORM WATER AND SANITARY SEWERS.

BOARD OF BOND TRUSTEES.

City of Pensacola, Fla.

Sealed proposals for the construction of storm water drains and sanitary sewers for the City of Pensacola, Fla., will be received by the Board of Bond Trustees, at the City Hall, up to 12 o'clock noon on the second day of May, 1911, proposals to be addressed to John A. Merritt, Chairman of the Board of Bond Trustees, endorsed "Proposals for Constructing Storm Water Drains and Sanitary Sewers."

The work to be done consists of approximately 15,060 lineal feet of storm water drains from 66 inches to 10 inches in diameter, and 23,880 lineal feet of sanitary sewers from 24 inches to 6 inches in diameter, with all the necessary appurtenances. Proposals must be accompanied by a certified check in the sum of $2,000.00. Each check so deposited to be drawn upon a bank doing business in the City of Pensacola, Florida, and made payable to the Board of Bond Trustees.

Specifications and blank form of proposals can be obtained from the Board of Bond Trustees, and full sets of plans can be obtained at the same office. A deposit of ten dollars ($10.00) will be required for each set of plans furnished, which amount will be returned upon the return of the plans in good condition.

The right is reserved to reject any and all bids.

JOHN A. MERRITT,
Chairman Board of Bond Trustees.

GEO. ROMMEL, JR.,
Engineer.

EARTHWORK. — DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., March 24, 1911.—Sealed proposals will be received at the office of the U. S. Reclamation Service, Shaw Building, Boise, Idaho, until 10 o'clock a. m., June 1, 1911, for the enlargement of the Main South Side Canal, between stations 789 and 799, near Boise, Idaho, involving the excavation of about 13,000 cubic yards of material. For particulars address the U. S. Reclamation Service, Washington, D. C., or Boise, Idaho. FRANK PIERCE, Acting Secretary.

PROPOSALS FOR MITER GATE-MOVING MACHINES, Miter Forcing Machines and Electric Motors for same, for the Lock Gates. Sealed proposals will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., May 27, 1911, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 627) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 614 Whitney-Central Building, New Orleans, La., and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.—F. C. BOGGS, Captain, Corps of Engineers, U. S. A., Geenral Purchasing Officer.

ASPHALT CEMENT.

Kansas City, Missouri.

The Board of Public Works will receive bids until April 14, 1911, for Two Thousand (2,000) tons of Asphalt Cement or materials from which Asphaltic Cement may be manufactured.

This material is to be delivered on the sidetrack of the Municipal Asphalt Plant, Kansas City, Missouri.

Bids are to be accompanied by a certified check for One Thousand ($1,000.00) Dollars, guaranteeing the successful bidder to enter contract.

Specifications for materials may be seen in the office of the Board of Public Works, or may be had upon application.

U. S. ENGINEER OFFICE, 920 17th Street, N. W., Washington, D. C., March 25, 1911.—Sealed proposals for furnishing materials and erecting complete, in accordance with plans and specifications, cut granite masonry in approaches to proposed McMillan Memorial Fountain, will be received here until 12 M., April 14, 1911, and then publicly opened. Information on application. W. C. LANGFITT, Lt. Col., Engrs.

Situations Wanted

Mechanical and Electrical Engineers

POSITION wanted by mechanical-electrical engineer, college graduate; over six years' experience with large manufacturing firm, two years as central station manager; good knowledge of power plant design and lately connected with large engineering firm in New York City in varied capacity. Address "E. B. 13," Engineering News, New York. 13-2t

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Situations [illegible]pen

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WANTED—Draftsman or e[illegible] (Canadian preferred), thoroug[illegible] experienced in the design of hydro[illegible] power plants and transmission [illegible] Apply, stating education, experien[illegible] present occupation and salary ex[illegible] to the GENERAL MANAGER, t[illegible]ke Superior Power Co, Sault Ste [illegible]e, Ont. 13-3t

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2—9 × 14 36-inch locomotives.
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Everything for contractors and road making machinery. 13-1t

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